#### **EMBASSY OF THE UNITED STATES OF AMERICA**

#### **URIBE CUALLA TOXICOLOGY CLINIC**

# RETROSPECTIVE STUDY ON REPORTED HUMAN HEALTH EFFECTS FROM GLYPHOSATE EXPOSURE

#### **APPENDIX 1**

**SAMPLE RISK CALCULATIONS** 

**Department of Putumayo** 

Bogota, D.C., Colombia December, 2001

#### TABLE No. 1 CALCULATION OF CUTANEOUS EXPOSURE TO GLYPHOSATE (ACID EQUIVALENT - ae)

	STEP	DESCRIPTION - PROCEDURE	
1.	Define the dose per surface	Application: $6.25 \text{ gl/ha}$ of the mixture or $6.25 \text{ gl/ha} * 3.785 \text{ l/g} = 23.656 \text{ l/ha}$ of the mixture (which contains $10.4 \text{ l}$ of Roundup <sup>1</sup> ).	
2.	Quantify the active ingredient (ai) per surface unit	Glyphosate content $ae^2 = 360 \text{ g/l}$ , therefore: $360 \text{ g/l} * 10.4 \text{ l/ha} = 3,744 \text{ g/ha}$ or $374 \text{ mg/m}^2$	
3.	Calculate the dose received by a 70 kg human being, if totally impregnated with the sprayed mixture.	<ul> <li>Corporal surface<sup>3</sup> = 1.73 m<sup>2</sup></li> <li>Dose received: 374 mg/m<sup>2</sup> * 1.73 m<sup>2</sup> = 647.02 mg Equivalent to the following for 70 kg: 647.02 mg/70 kg = 9.24 mg/kg of live weight</li> </ul>	
4.	Compare with data from experimentation or observation.	• The LD $_{50}$ for rats by the cutaneous pathway is $> 5,000$ mg/kg (figure for comparison), Accordingly, for 70 kg: $5,000$ mg/kg $\div$ 9.24 mg/kg = 541 times less than the LD $_{50}$	

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Mixture applied by PECI contains: 10.4 liters of Roundup Ultra; 0.24 liters of Cosmoflux 411F and 13.02 liters of water

<sup>2</sup> Glyphosate content as equivaent acid in Roundup Ultra or Fuete®

Harrison's Principles of Internal Medicine, 13 th. Ed. 1991.

#### TABLE No. 2

## CALCULATION OF ORAL EXPOSURE FROM INGESTION OF WATER SPRAYED WITH THE PECI GLYPHOSATE MIXTURE

	STEP	DESCRIPTION-PROCEDURE	
1.	Calculate the concentration in sprayed water.	Dose per $m^2 = 374 \text{ mg/m}^2$ of glyphosate as ae Therefore, if a $1m^2$ sheet of sprayed water 10 cm deep is equivalent to 1001 of water: $374 \text{ mg/m}^2 \div 100 \text{ l/m}^2$ of water = 3.74 mg/l of glyphosate as ae.	
2	Calculate the dose received by a 70 kg human being with ingestion of 1 liter of sprayed water.	Dose received by ingesting 1 liter of sprayed water:     3.74 mg / 70 kg = 0.05 mg / kg of live weight	
3.	Compare with data obtained through experimentation or observation.	• The LD <sub>50</sub> for rats by the \oral pathway is 5,000 mg/kg (figure for comparison), Accordingly: for 70 kg: 5,000 mg/kg ÷ 0.05 mg/kg = 100,000 times less than the LD <sub>50</sub>	

NOTE: These calculations are based on the assumption that the water is not moving (cisterns, tanks, lakes, etc.)

## TABLE No. 3 CALCULATION OF CUTANEOUS EXPOSURE TO POEA

	STEP	DESCRIPTION - PROCEDURE	
1.	Define the dose.	One liter of Roundup (a commercial product) contains no more than	
		180 g of POEA <sup>4</sup> /l.	
		The dose applied per ha:	
		$(180 \text{ g/l} * 10.4 \text{ l/ha}) = 1,872 \text{ g/ha or } 187 \text{ mg/m}^2$	
2.	Calculate the dose	Corporal surface: 1.73 m <sup>2</sup>	
	received by a 70 kg	Dose received:	
	human being if sprayed	$187 \text{ mg/m}^2 * 1.73 \text{ m}^2 = 323.5 \text{ mg of POEA}$	
	completely.	Equivalent for a typical weight of 70 kg:	
		323.5  mg/70  kg = 4.62  mg/kg  of live weight	
3.	Compare with data	• The LD <sub>50</sub> for rabbits by the cutaneous pathway $^5 > 1,260$ .	
	obtained through	Accordingly, absorption of the dose received for 70 kg:	
	experimentation or	$1,260 \text{ mg/kg} \div 4.62 \text{ mg/kg} = 273 \text{ times less than the lethal dose (LD}_{50})$	
	observation.		

Maximum quantity of POEA in the glyphosate product.

Birch, 1977, in Williams, Kros and Munro. December 1999.

## TABLE No. 4 CALCULTION OF ORAL EXPOSURE TO POEA

	STEP	DESCRIPTION - PROCEDURE	
1.	Calculate the concentration	The POEA dose applied per hectare is:	
	in sprayed water	(180  g/l * 10.4  l/ha) = 1,872  g/ha or	
		$(1,872 \text{ g/ha} *1,000 \text{mg}) \div 10,000 \text{ m}^2 = 187 \text{ mg/m}^2$	
		A 1m <sup>2</sup> sheet of sprayed water 10 cm deep is equivalent to 100 l of water.	
		Therefore:	
		$187 \text{ mg/m}^2 \div 100 \text{ l/m}^2 = 1.87 \text{ mg/l of POEA}.$	
2	Calculate the dose received	Dose received by ingesting one liter of sprayed water:	
	by a 70 kg human being by	1.87  mg / 70  kg = 0.03  mg / kg of live weight	
	ingesting one liter of		
	sprayed water.		
3.	Compare with data obtained	• The LD <sub>50</sub> for rats by the oral pathway is 1,200 mg/kg (figure for	
	through experimentation or	comparison. Accordingly, for 70 kg:	
	observation.	$1,200 \text{ mg/kg} \div 0.03 \text{ mg/kg} = 40,000 \text{ times less than the LD}_{50}$	

NOTE: The foregoing calculations are based on the assumption that the entire quantity of applied POEA is absorbed through the oral pathway.

## TABLE No. 5 CALCULATION OF CUTANEOUS EXPOSURE FOR COSMOFLUX 411F

	STEP	DESCRIPTION - PROCEDURE	
1.	Calculate the	Dose of Cosmoflux per hectare = 0.24 l/ha, which is equivalent to:	
	concentration in	0.24  l/ha * 0.84  g/l = 0.2  g/ha  or	
	sprayed water.	0.02 mg/m <sup>2</sup> , taking into account that Cosmoflux has a specific gravity of 0.84 g/l:	
2.	Calculate the dose	• Corporal surface = $1.73 \text{ m}^2$	
	received by a 70 kg	• Dose received: $0.02 \text{ mg/m}^2 * 1.73 \text{ m}^2 = 0.0346 \text{ mg}$	
	human being, if	Equivalent to the following for 70 kg:	
	impregnated completely.	0.0346  mg/70  kg = 0.000494  mg/kg  of live weight	
	completely.	Assuming the LD <sub>50</sub> for rats by the cutaneous pathway <sup>6</sup> is $> 2,000$ mg/kg, the dose is	
		the following for 70 kg:	
		$: 2,000 \text{ mg/kg} \div 0.000494 \text{ mg/kg} = 4,048,583$	
		times less than the LD <sub>50</sub> ,	

<sup>6</sup> 

## TABLE No. 6 CALCULATION OF ORAL EXPOSURE TO COSMOFLUX 411F

	STEP	DESCRIPTION - PROCEDURE	
1.	Calculate the concentration in sprayed water	Dose of Cosmoflux applied per $m^2 = 0.02 \text{ mg/m}^2$ A $1\text{m}^2$ sheet of water 10 cm deep contains 100 liters of water. Accordingly: $0.02 \text{ mg/m}^2 \div 100 \text{ l/m}^2 = 0.0002 \text{ mg/l}$ of Cosmoflux	
2	Calculate the dose received by a 70 kg human being by ingesting one liter of sprayed water.	• Dose received by ingesting one liter of sprayed water: 0.0002 mg / 70 kg = 0.0000028 = 2.8 E-6 mg / kg of live weight	
3.	Compare with data obtained through experimentation or observation.	The LD <sub>50</sub> for rats by the oral pathway is 2,000 mg/kg (figure for comparison), Accordingly, for 70 kg: 2,000 mg/kg $\div$ 2.8 E-6 mg/kg = 714,285,714 times less than the LD <sub>50</sub>	

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### REPORTED HUMAN HEALTH EFFECTS FROM GLYPHOSATE

### **APPENDIX 2**

PREOPERATIVE PHASE

**Department of Putumayo** 

Bogota, D.C., Colombia December, 2001

#### PREOPERATIVE PHASE

The study was designed to be conducted in the Department of Putumayo, pursuant to the contract between the United States Embassy (NAS) and the Uribe Cualla Toxicology Clinic. The Putumayo Department of Health (DASALUD) was contacted and its director, Dr. Angela Reina, appointed Diva Revelo, Head of Epidemiology, to send the Uribe Cualla Clinic reports of complaints filed with local authorities.

In May, Dr. Camilo Uribe, Scientific Director of the Uribe Cualla Toxicology Clinic, and Dr. Olga Lucia Melo, Toxicology Resident of the Rosario University School of Medicine - Uribe Cualla Clinic Program, held an initial meeting with Diva Revalo, who gave her professional opinion of the complaints filed with local authorities. As evidence of the cases handled by the Putumayo Department of Health, Nurse Revelo agreed to send a list of complaints, per municipality or village. This information was to be used to determine the study zones and to coordinate the field work with local health officials and other public authorities. The list was to be sent as soon as possible.

However, given the delay in receiving the information on complaints and patients attended by DASALUD - Putumayo, the project director and the US Embassy decided to send a medical professional and the logistics manager to Mocoa and Puerto Asís to obtain the necessary information and to make arrangements for the field work and the seminars. The embassy appointed Hilda Sarmiento to accompany the mission and to arrange lodging, transportation and food for the seminar group in Puerto Asís. As agreed in advance, the cost of these items was to be covered by the embassy.

During the mission, Dr. Alejandra Salcedo, Resident Clinical Toxicologist at the Rosario University Toxicology Clinic, met with Diva Revelo in Puerto Asís and obtained all the information on complaints filed with authorities. She also coordinated the field work, which was to be carried out through a health brigade, with assistance from the public hospitals in Orito and La Hormiga. Arrangements were made for the research team to be accompanied by the health worker from each village.

At the same time, Mr. Yesid Gastelbondo made arrangements with authorities for appropriate vehicles and drivers to guarantee the safety of the field team. This was difficult, since FARC guerrillas and AUC paramilitaries are struggling for territorial control in Putumayo. Only one vehicle and one driver were found. According to the authorities and the driver, travel in areas of conflict increases travel time and security risks, since it is impossible to go directly from a guerrilla zone to one controlled by paramilitary forces

The topics of the two seminars to be presented in Puerto Asís were defined pursuant to the object of the contract. One seminar was scheduled for

departmental authorities and interested NGOs (June 21); the other was for personnel from the Putumayo Health Department (June 22). After an analysis of suggestions from DASALUD, a decision on the topics of both seminars was reached during a meeting with Suzanne Sheldon and Luis Eduardo Parra at the US Embassy. The invitation list, the text of the invitation and the program were defined on that occasion (Attachment 3: Invitation, Attachment 4: Invitation List, and Attachment 5: Program).

As agreed with DASALUD, Suzanne Sheldon and Luis Eduardo Parra (representatives of the US Embassy), the field work was scheduled for June 11-20, 2001.

An analysis of the complaints showed the following:

#### San Miguel

- Six hundred forty-three complaints filed with the San Miguel municipal representative were reviewed.
- The symptoms mentioned most often were cephalea, fever, acute respiratory infection referred to as a cold, diarrhea and unspecified cutaneous eruptions. It was not possible to determine the number of people who supposedly were affected, since most of the complaints were filed by the head of the household and the subjects were family members. Consequently, the total number of complaints does not reflect individual reports of symptoms.

TABLE 1. DISTRIBUTION OF HEALTH COMPLAINTS BY VLLAGE MUNICIPALITY OF SAN MIGUEL – January-February 2001

VILLAGE	No OF COMPLAINTS	%
Agua Blanca	56	8.7
San Juan	44	6.8
Bajo Amaron	40	6.2
La Floresta	40	6.2
San Marcelino	40	6.2
San Fernando	38	5.9
Guisita	35	5.4
Limonal	34	5.3
El Chiguaco	33	5.1
Risaralda	32	5.0
El Espinal	29	4.5
El Aguila	27	4.2
Yarinal	23	3.6
San Vicente	18	2.8
Nueva Esperanza	18	2.8
Nueva Cristalina	18	2.8
Agua Clara	14	2.2
Dios Peña	11	1.7
La Cruz	10	1.6
La Danta	10	1.6
San Carlos	9	1.4
Alta Floresta	8	1.2
Nueva Risaralda	7	1.1
Jordán Ortiz	7	1.1
Nuevo Vergel	6	0.9
El Vergel	5	0.8
El Maizal	4	0.6
La Cristalina	3	0.5
Santa Marta	3	0.5
El Porvenir	3	0.5
La Dorada	3	0.5
La Borada	3	0.5
Baja Floresta	2	0.3
La Cristalina Ii	2	0.3
Puerto El Sol	2	0.3
Canadá	2	0.3
Vieja Risaralda	1	0.2
Barrio Amistad	1	0.2
La Montañita	1	0.2
Sin Dato	1	0.2
TOTAL	643	100.0

The report from the DASALUD Epidemiology Section contains the following figures on health complaints filed at villages in the municipality of Valle del Guamuez.

The municipal representative of La Hormiga, which is located in the municipality of Valle del Guamuez, received 800 complaints from local inhabitants; 584 referred to health problems (73 percent). The form used to file these complaints makes it possible to establish the distribution of supposedly affected individuals.

TABLE 2. DISTRIBUTION OF PEOPLE WHO REPORTED SYMPTOMS
MUNICIPALITY OF VALLE DEL GUAMUEZ
JANUARY – FEBRUARY 2001

JANUARI - FEDRUARI 2001		
VILLAGES	No. OF SUPPOSEDLY AFFECTED SUBJECTS	%
La Esmeralda	194	8.50
Los Angeles	157	6.88
San Isidro	121	5.30
El Placer	114	4.99
Las Vegas	101	4.42
Alto Palmira	89	3.90
Costa Rica	88	3.85
La Pradera	73	3.20
Brisas Del Palmar	72	3.15
Miravalle	69	3.02
Santa Rosa Del Guamuez	67	2.93
La Florida	65	2.85
Jardín	65	2.85
La Betania	59	2.58
Santa Teresa	59	2.58
Laureles	57	2.50
La Concordia	52	2.28
Guaduales	51	2.23
Varadero	50	2.19
Oasis	46	2.01
El Rosal	44	1.93
Recreo	38	1.66
San Andres	38	1.66
Zarzal	38	1.66
La Palestina	34	1.49
Alto Huisia	34	1.49
Nueva Isla	31	1.36
Loro 8	31	1.36
Sultana	29	1.27
Loro 1	27	1.18
Villa Duarte	27	1.18
Venado	19	0.83
Alto Rosal	18	0.79
Delicias	16	0.70

16	0.70
15	0.66
15	0.66
15	0.66
13	0.57
12	0.53
11	0.48
10	0.44
10	0.44
9	0.39
7	0.31
7	0.31
6	0.26
6	0.26
6	0.26
5	0.22
5	0.22
5	0.22
4	0.18
4	0.18
4	0.18
4	0.18
3	0.13
3	0.13
3	0.13
2	0.09
2	0.09
2	0.09
2	0.09
2	0.09
2	0.09
2283	100.00
	15 15 15 15 11 10 10 10 9 7 7 6 6 6 6 5 5 5 4 4 4 4 4 3 3 3 3 3 2 2 2 2 2 2 2

Source: La Hormiga Municipal Representative, Valle del Guamuez

The symptoms reported most often were fever (250 reports), skin rash or "allergy" and colds (a term people use for what is clinically described as acute respiratory infection-ARI).

#### Orito

The report from the DASALUD Epidemiology Section contains the following figures on health complaints filed at villages in the municipality of Orito.

TABLE 3. DISTRIBUTION OF SUPPOSEDLY AFFECTED SUBJECTS BY VILLAGE
AND DISTRICT
MUNICIPALITY OF ORITO - 2001

VILLAGE	No. SUPPOSEDLY AFFECTED SUBJECTS	%
Siberia	116	14.0
Primavera Del Guamuez	90	10.9
Cabañas Del Guamuez	88	10.7
Batería Churuyaco 1	86	10.4
Alto Guisia	84	10.2
Brisas Del Guamuez	65	7.9
La Ruidosa	62	7.5
Bonaire	58	7.0
Remolino	55	6.7
Bajo Primavera	47	5.7
El Azul	37	4.5
Pedregosa	30	3.6
San José Del Guamuez	8	1.0
Nogales	33	27.7
La Playa	28	23.5
Flor Del Campo	25	21.0
Cartagena	13	10.9
Santa Teresa	13	10.9
Lusitania Churuyaco	7	5.9
Santa Lucia	89	27.9
Argentina	89	27.9
El Empalme	63	19.7
Jardines De Sucumbios	44	13.8
La Libertad	34	10.7
Total	1264	100.0

The villages with the highest number of supposedly affected individuals were selected for the field work. This initial selection is shown below.

TABLE 4. VILLAGES SELECTED INITIALLY

**VALLE DEL GUAMUEZ** 

### SAN MIGUEL

VILLAGE	NO. OF COMPLAINTS
Agua Blanca	56
San Juan	44
Bajo Amarón	40
San Marcelino	40
San Fernando	38
La Guisita	35
Limonal	34
Chiguaco	33
Risaralda	32
El Aguila	27
Yarinal	23
La Danta	10
La Cruz	10

VILLAGE	SUPPOSEDLY AFFECTED INDIVIDUALS
Esmeralda	194
Los Angeles	157
San Isidro	121
El placer	114
Las vegas	101
Alto Palmira	89
Costa rica	88
La pradera	73
Brisas del palmar	72

### **ORITO**

VILLAGE	SUPPOSEDLY AFFECTED INDIVIDUALS
Siberia	116
Primavera del Guamuez	90
Cabañas del Guamuez	88
Batería Churuyaco 1	86
Alto Guisia	84
Santa Lucia	89
Argentina	89
El Empalme	63

Later, the feasibility of travel by land and the time this would require were considered in order to arrive at a final selection. These variables are shown in the following chart.

TABLE 5. ACCESS BY LAND OR RIVER

EDOM	TO.	DO AD	DATH	RIVE	TIME
FROM	ТО	ROAD	PATH	R	(mintues)
HORMIGA	Alto Palmira	YES			40
	Miravalle	YES			30
	La Esmeralda	YES			90
	Las Vegas	YES			30
	El Placer	YES			40
	Costa Rica	YES			120
	San Isidro	YES			90
	Pradera	YES			20
	Loro Ocho	YES			30
	La Cruz	YES			15
	San Fernando	YES			60
LA DORADA	Nueva Risaralda	YES			15
	Nuevo Vergel	YES			30
	Chiguaco	YES			40
	Bajo Amaron	YES			30
	San Carlos	YES			60
	Las Palmas	X	YES		120
	El Aguila	YES			90
	San Miguel	YES			30
	Yarinal	YES	YES	YES	180
	San Marcelino	YES			90
	Risaralda	YES			15
	Alta Floresta	YES			30
	Floresta	YES			30
	San Juan	YES			10
	Agua Blanca	YES			30
	La Guisita	YES			120

The final selection included the villages of El Empalme, Jardín de Sucumbios and Siberia in the municipality of Orito; La Esmeralda, Los Angeles, El Placer and Las

Vegas in Valle del Guamuez; and San Marcelino, Chiguaco, Bajo Amarón and Yarinal in San Miguel.

The number of CRIs administered in each village was determined by its percentage of complaints with respect to the total.

TABLE 6. NO. OF AFFECTED INDIVIDUALS PER MUNICIPALITY

DATE	MUNICIPALIT Y	VILLAGES	SUPPOSEDLY AFFECTED INDIVIDUALS OR NO. OF COMPLAINTS	NUMBER OF CRIS TO BE ADMINISTERE D
11 June	Orito	El Empalme	63 affected	57
12 June		Jardín de Sucumbios	44 affected	57
13 June		Siberia	116 affected	57
14 June	San Miguel	San Marcelino	40 complaints	32
15 June		Chiguaco	33 complaints	32
13 June		Yarinal	23 complaints	
16 June		Bajo Amarón	40 complaints	32
10 June		El Aguila	27 complaints	
17 June	La Hormiga	La Esmeralda	194 affected	77
18 June		Los Angeles	157 affected	77
19 June	]	El Placer - Las Vegas	114 affected	77
20 June		TOTA	L	500

Once the villages were selected, the field work schedule was defined (Attachment 6: Chronology of Field Work). An invitation publicizing the Health Brigade was prepared for broadcast by the principal radio stations in Putumayo (Attachment 2: Radio Invitation). To help promote the brigade, local health and community workers were informed as well.

The research group decided to hire Dr. Juan Eduardo Céspedes, an epidemiologist with experience in field work, to evaluate the CRI and to be part of the research group during the seminar-workshops, analysis of the information and preparation of the final report. In conjunction with Dr. Céspedes, the group agreed its investigation would be an analytical retrospective study of cases and controls. The CRI was modified as a result.

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### REPORTED HUMAN HEALTH EFFECTS FROM GLYPHOSATE

### **APPENDIX 3**

**OPERATIVE PHASE** 

**Department of Putumayo** 

Bogota, D.C., Colombia December, 2001

#### Contents:

- A detailed chronological description of the field work
- Samples: collection procedures, packing and shipment, according to the refrigeration protocol, the chain of custody and laboratory analysis for toxicity
- Data processing and analysis

#### CHRONOLOGICAL DESCRIPTION

The following is a detailed chronological description of the field work. It notes the difficulties, the number of outpatients served, the number of CRIs administered, and the samples collected in each district.

#### June 9

Mr. Yesid Gastelbondo flew to Puerto Asís on a Narcotics Police flight, taking with him the materials and equipment for the field work. He was responsible for making the necessary arrangements and coordinating transportation for the research team. The materials and equipment were transferred to police headquarters in Puerto Asís, with the help of the local commander, Captain Alejandro Muriel.

#### June 10

The members of the field team (Dr. Camilo Uribe, Dr. Olga Lucía Melo, Dr. Alejandra Salcedo and Dr. Tania Santodomingo) traveled to Puerto Asís on a commercial flight (AIRES). Upon arriving at 12:00 hours, they were met by an administrative employee of the Uribe Cualla Clinic and Captain Alejandro Muriel, the police commander in Puerto Asís. The team went to police headquarters, checked to make sure the materials for the field work were available, and held a meeting with Captain Muriel to analyze the travel plans as of this date and security in the region. The materials not required for field work were left in police custody, along with certain identification papers.

A meeting was held with Mr. Luis Antonio Yela, the driver hired for the field team. He was advised of the trip's objectives and a route was laid out according to his knowledge of the region. The itinerary also took into account information concerning the whereabouts of guerrilla and paramilitary groups (AUC)

There was also a meeting with Diva Revelo (R.N), a who had come from Mocoa. The work schedule was organized and the team left for Orito at 14:00 hours. Upon arrival in Orito at 17:00 hours, telephone contact was established with Dr. Glinis Díaz, manager of the Orito Hospital, which is a second-tier institution operated by the state. She appointed Eliana Rivadeneiro, a nurse, to help set up the refrigeration protocol for the blood and urine samples. Another nurse, Dora Cerón, was designated to join the team and to help collect the samples.

Eliana Rivadeneiro contacted the local health workers in El Empalme, Jardín de Sucumbios and Siberia (Leticia Villota and Olga García) to let them know the health brigade would proceed according to schedule.

#### June 11

Travel by land from Orito to El Empalme. The team reached El Empalme at about 09:00 hours and was met by the President of the Community Action Council, in addition to several members of the Council Board and the local health worker (Leticia Villota). Two offices for outpatient consulting were set up in the community hall, which is under construction. A reception area and a space for administering the CRI were arranged in the same facility, along with a pharmacy and an area for collecting samples. The team worked until 19:30 hours, saw 148 patients, prescribed medicine to 90, administered the CRI to 48 subjects and collected 30 blood and 48 urine samples, pursuant to the established protocol for the chain of custody.

At 20:00 hours, Dr. Camilo Uribe and Dr. Olga Melo left the community hall to check on a woman who was about to give birth. Her labor was normal and there were no signs of fetal distress.

On several occasions during the course of the brigade's activities at El Empalme, intelligence personnel from the FARC surveyed the work but did not interfere. According to the President of the Community Action Council, the area has not been sprayed to eradicate coca. He believes exposure was due to drift.

For security reasons, Leticia Villota suggested the team continue on to Jardín de Sucumbios, as opposed to spending the night in El Emplame. Luis Antonio Yela made the necessary contacts for travel at night and the team arrived in Jardín de Sucumbios at approximately 21:00 hours. The trip was uneventful. Leticia Villota provided accommodations for the team in her home.

#### June 12

Two offices for outpatient consulting were set up at the local health post, along with an area for administering the CRI, another for collecting samples, a medicine distribution point and a reception area. The team worked until 18:00 hours, saw 135 patients and administered the CRI to 66 subjects. Thirty-three blood and 66 urine samples were collected, pursuant to the established protocol for the chain of custody.

At 16:00 hours, nine members of the FARC and their commander, alias "Manuel," held a meeting with Dr. Uribe. He indicated the health brigade was subject to international humanitarian law and noted that one of its activities was to assess possible human health effects from glyphosate spraying and exposure to other agricultural chemicals used in the region. The guerrillas indicated they did not object to brigade continuing its work. The team left for Siberia at 19:00 hours, as

arranged by the driver, and arrived at 20:30 hours. The team made contact with Olga García, the local health worker, who had arranged accommodations at the school, which is one kilometer from the village and has no type of security. Six hammocks were hung in order to pass the night without problems.

#### June 13

The team went to the health post, where two offices for outpatient consulting had been set up, along with two for administering the CRI and collecting samples. There was also an area for distributing medicines and a reception point. The team worked until 18:00 hours, saw 183 patients, prescribed medication to 118, administered the CRI to 63 and collected 31 blood and 60 of urine. Departure for Orito was at 18:30 hours, as arranged by the driver to obtain the required authorization.

Upon arriving in Orito at 20:00 hours, the team contacted Eliana Rivadeneiro, head nurse at the local hospital, to refrigerate the samples at the facilities of the vaccination program. This was done according to the protocol for the chain of custody and recommendations on cooling.

#### June 14

By this time, the medicine donated by two pharmaceutical companies (California and Memphis) had run out and the work schedule was suspended until the Uribe Cualla Clinic in Bogota could send new supplies. Another donation could not be arranged, so Dr. Uribe authorized the purchase of \$8,000,000 pesos in medicines and made arrangements with the Counter-Narcotics Police to have them set to the Ecopetrol Airport in Orito. However, the airport could not be used, since Ecopetrol employees were on strike. The medicines were sent to Puerto Asís on June 15 by commercial airline (SATENA). On the night of the 15th, the local AUC commander, alias "Wilson," summoned Dr. Uribe for an explanation of the brigade's work and its itinerary. He told Dr. Uribe the team was operating in AUC territory and would have to report its movements at certain checkpoints set up by this illegal armed group.

#### June 15

Dr. Uribe and the driver went to Puerto Asís to pick up the medicines at the airport. The rest of the team stayed in Orito, organizing supplies and making arrangements to ship the samples on hand to Bogota. This was done according to the chain of custody and under the care of Dr. Glinis Díaz, manager of the Orito Hospital. She volunteered to take them by air from Puerto Asís, since she was scheduled to attend a Ministry of Health meeting in Bogota. Arrangements were also made with the Uribe Cualla Clinic to pick up the samples at El Dorado Airport in Bogota on June 16.

The medicines were picked up at the airport in Puerto Asís at 11:00 hours, with the help of Captain Alejandro Muriel, and taken to Orito. They arrived at 15:00 hours and were placed under refrigeration at the Orito Hospital. At 16:00 hours, the team left for La Hormiga. Upon arrival at 18:00 hours, the team contacted the manager of the hospital in La Hormiga, Dr. Victor Pérez, who asked the Head of the Nursing Department to put the brigade in touch with the health worker in La Dorada, Cristina García. She also serves the villages of Chiguaco, San Marcelino and Yarinal. La Dorada is 20 minutes from La Hormiga.

Upon reaching La Dorado, the team was detained by two AUC members who behaved aggressively and demanded information. Before authorizing the team to move on, they warned that travel by land after 18:00 hours is prohibited. Arrangements were made with Cristina García for the trip to the Yarinal Indian Reservation the next day. The team left La Dorada for La Hormiga, after requesting authorization to do so at the AUC checkpoint located on the edge of the village. The team spenT the night in La Hormiga.

#### June 16

The team picked up Cristina García in La Dorada, before going on to San Marcelino to catch a boat to the Yarinal Reservation. However, a few kilometers outside La Dorado, they were stopped at the AUC checkpoint. Before being authorized to move one, the team was warned that it was headed for guerrilla territory. About 50 meters from the cut off to San Marcelino, unidentified personnel in uniform detained the team, searched the supplies and stole \$3,000,000 pesos in cash, before ordering a detour to El Aguila. At the school in El Aguila, there was a poster announcing the health brigade, but with the wrong dates. Accordingly, the activities in San Marcelino and Chiguaco were rescheduled for the morning of June 20. The President of Community Action Council and the teacher in Chiguaco agreed to coordinate the necessary arrangements.

At San Marcelino, a port on the La Hormiga River, no one was willing to transport the brigade. Based on information from the President of the Community Action Council in that village, the team headed for Chiquaco, where there is a footpath to Yarinal. Arrival in Chiquaco was at 10:30 hours, where a horse was rented to haul the medicines and equipment. The trip by foot was difficult and lasted two and a half hours. The team arrived in Yarinal at 13:00 hours and was met by the health worker assigned to the reservation. He coordinated the work at the health post, where two offices had been set up for outpatient consulting. There was also a place to administer the CRI and collect samples, an area where medicine was distributed and a reception point. The brigade worked until 16:00 hours, saws 96 patients, prescribed medicine to 60 and administered 36 CRIs, in addition to collecting 26 blood and 33 urine samples. The return trip to Chiquaco was by foot. However, one of the villagers provided a horse to carry the supplies. Travel time was reduced by one hour, since the villager was familiar with the area. From Chiquaco, the brigade went to La Dorado to drop off Christina García, then continued on to La Hormiga, after receiving authorization for travel after dark.

Arrival at the hospital in La Hormiga was at 19:00. With the help of the bacteriologist who was on duty, the samples were refrigerated at the institution's clinical laboratory, according to the refrigeration protocol and the chain of custody.

#### June 17

The coolers were picked up at the hospital and the refrigeration protocol was coordinated. The brigade left for El Placer. However, before entering the village, it was forced to pay the AUC a toll. Tania Guerrero, the health worker at El Placer, accompanied the brigade to La Esmeralda, where the treasurer of the Community Action Council reported that the health worker was on maternity leave and the health post was closed. He was immediately advised of the official nature of the brigade, as an initiative of DASALUD, and ordered to open the post. Areas were set up for outpatient consulting, to administer the CRI, to collect samples and to distribute medicine. There was also a reception area. The brigade worked until 17:00 hours, saw 190 patients, prescribed medicine to 120, administered 90 CRIs, and collected 45 blood and 90 urine samples. The brigade was back in La Hormiga at 18:15 hours, where the samples were turned over to the hospital for storage, according to the refrigeration protocol and the chain of custody.

Later that night, Dr. Uribe was summoned to a meeting with the local AUC commander to explain the brigade's activities. The meeting lasted until 21:30 hours and there were no setbacks.

#### June 18

The coolers were picked up at the hospital and the refrigeration protocol was coordinated. The brigade then left for El Placer to pick up Tania Guerrero and continue on to Los Angeles, where it was met by the President of the Community Action Council. Preparations had been made at the school, but the teacher was away and had neglected to leave the keys. With authorization from the Community Action Council, the driver entered the schoolhouse by the roof and opened the door. Two areas were available for outpatient consulting, in addition to an area for administering the CRI, another to collect samples, a reception point, and an area for distributing medicine. The brigade worked until 17:30 hours, saw 200 outpatients, prescribed medicine to 60, administered the CRI to 102 subjects, and collected 54 blood and 102 urine samples. The team was back in La Hormiga by 18:30 hours and turned the samples over to the hospital for storage, pursuant to the refrigeration protocol and the chain of custody.

#### June 19

The coolers were picked up at the hospital and the refrigeration protocol was coordinated. The brigade then left for El Placer, where Tania Guerrero helped to set up two offices at the health post for outpatient consulting, an office to administer the CRI, another to collect samples, a reception area and another for distributing medicines. The members of the brigade worked until 16:30 hours,

saw 189 patients, prescribed medicine to 160, administered the CRI to 73, and collected 38 blood and 73 urine samples. The brigade was back in La Hormiga by 17:30 hours and turned the samples over to the hospital for storage, pursuant to the refrigeration protocol and the chain of custody.

#### June 20

The coolers were picked up at the hospital and the refrigeration protocol was coordinated. The brigade went to La Dorada to pick up Cristina García before going on to Chiguaco, where Diva Revelo, Cristina García and Camilo Uribe made arrangements with the school teacher to install the brigade at the schoolhouse. A medical office, reception point and an area for CRI administration and dispensing medicine were set up. The brigade worked until 12:30 hours, saw 56 patients, administered the CRI to 11 and supplied medicine to 56. No samples were collected.

The other members of the brigade (Alejandra Salcedo, Olga Melo and Tania Santodomingo) went on to San Marcelino by land. They were met by the Indian governor, who had set up three areas at the health post. These were used simultaneously to conduct medical examinations, administer the CRI and collect samples. This portion of the brigade worked until 12:30 hours, saw 47 patients, administered the CRI to 13 and collected 11 urine and nine blood samples. Medicines were and distributed to 47 patients.

While the brigade was in San Marcelino, the Indian governor asked if one of the doctors could travel 20 minutes by river to examine a young Indian girl who was in serious condition. Dr. Tania Santodomingo was sent to evaluate the patient. She was accompanied by Luis Antonio Yela. The Indian governor arranged their transportation. The patient was approximately 10 years old and appeared to be suffering from severe osteomyelitis. Dr. Santodomingo washed, debrided and immobilized the extremity, applied an analgesic and antibiotic, and made arrangements for the patient's referral to the hospital in La Hormiga for emergency Dr. Santodomingo was then asked to evaluate another patient, whom she diagnosed as suffering from a retained abortion. The patient's referral to the hospital in La Hormiga was arranged. The brigade returned to La Hormiga by land, passing through Chiquaco and La Dorada. The refrigeration protocol in La Hormiga was adapted to include all samples stored at the clinical laboratory and those collected at Chiquaco and San Marcelino. This was done in accordance with the protocol for the refrigeration protocol and the chain of custody. hours, the brigade left La Hormiga for the trip by land to Orito and Puerto Asís. Along the way, an army road block at a spot known as El Cruce stopped the team and asked the doctors to examine several soldiers who were suffering from skin lesions. They were treated with antibiotics.

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<sup>&</sup>lt;sup>1</sup> Removal of lacerated, devitalized or contaminated tissue.

The brigade arrived at the hospital in Orito at 17:40 hours to change the batteries required for the refrigeration protocol and to return several that had been provided on loan. Departure for Puerto Asís was at 17:50 hours. The brigade reached the Puerto Asís Battalion at 19:20 hours, only to learn that travel after 18:00 hours was prohibited. Permission to continue on to Puerto Asís was requested and granted by the commanding officer. Arrival in Puerto Asís was at 19:45 hours. Captain Alejandro Muriel was contacted and arrangements were made for the refrigeration protocol at the police station. Logistic arrangements for the seminar were confirmed.

In all, the brigade performed a total of 1,244 medical examinations and administered the CRI to 502 subjects.

#### June 21

As scheduled, the Seminar-Workshop on Pesticides: Safe Handling and Environmental Impact was held on June 21 at Comfamiliar for personnel from the Putumayo Department of Health. Fifty-four people attended (See Attachment 8). The participants showed interest in the topic and agreed that the region needs a pesticide epidemiological surveillance system, not only because of the eradication program, but because of agricultural chemical abuse for both legal and illicit crops. Suzanne Sheldon from the US Embassy and Luis Eduardo Parra arrived in Puerto Asís sometime after 12:00 hours.

Copies of the seminar report were distributed in print and in CD-ROM. The participants evaluated the event (See Attachment 9).

#### June 22

The same seminar-workshop was given on June 22, at Comfamiliar, to departmental and municipal authorities and interested NGOs. There were 52 participants (See Attachment 8). Following an important discussion on the eradication program, the conclusions reached the day before were reiterated. Copies of the seminar report in print and CD-ROM were distributed, and the participants evaluated the event (See Attachment 9).

At the request of Dr. Alvaro Gutiérrez, Director of the Puerto Asís Hospital, Dr. Uribe gave a four-hour lecture on Saturday, June 23 to members of the medical staff on general treatment for intoxication. Afterwards, he was asked to evaluate a patient who was in critical condition due to a suicide attempt with Methlyparathion (an organophosphate pesticide) and a precordial wound with a sharp instrument. He evaluated the patient, gave an opinion on how the case could be handled, and took a sample for analysis in Bogota to determine cholinesterase activity.

Arrangements were made to send the rest of the samples with Suzanne Sheldon, pursuant to the parameters of the chain of custody. As planned, they were to be

picked up at the National Police hangar in Bogota by the Uribe Cualla Clinic. This was done without mishap.

The community was extremely cooperative in providing the facilities and elements required for the health brigade to do its job, and generously arranged food and lodging for the research group.

All members of the team suffered gastrointestinal problems while in the field, probable because of the lack of potable water and conditions for adequate hygiene.

#### THE SAMPLES

#### **Urine Samples**

Each subject (individual-sample) was given a plastic container packed in a sealed bag. The container was used to collect 50 cc of urine from a single miction, under the supervision of one of the team members (physician or health worker). The patient returned the container to the supervisor, who labeled the sample with the respective code and attached an adhesive safety strip. The sample was then placed in the appropriate cooler for storage. The date, time, patient code and evaluator 's signature were entered on a form for this purpose.

### **Blood Samples**

Ten cc of venous blood were drawn from the forearm, after cleansing with alcohol. Each sample was collected in a heparinized tube, which was labeled with the respective code, fastened with an adhesive safety strip and packed in the appropriate cooler. The date, time, patient code and evaluator's signature were registered on the form provided for this purpose.

After the samples were collected at each location, the coolers were sealed and a final closure certificate was drawn up for each one, listing the number of samples inside, their codes, and the date and time the cooler was closed. The certificate was signed by the person in charge.

#### **Packing and Shipment**

Pursuant to the protocol for the chain of custody, the samples were labeled with pencil or waterproof ink and the stopper was sealed with a paper sticker. Each urine and blood sample was marked with the same number as the CRI administered to the patient. The urine and blood samples were placed on perforated styrofoam racks designed especially to prevent spilling or breakage. The racks were placed inside thick styrofoam coolers chilled with bags of dry ice. Refrigeration was done in accordance with Internationally accepted procedures.

For the first shipment, Dr. Alejandra Salcedo turned the coolers with the samples and the chain of custody form over to the Director of La Hormiga Hospital, who took them to Bogota on a commercial flight. She, in turn, delivered the coolers and the custody form to a staff member from the Uribe Cualla Toxicology Clinic, who verified delivery and receipt of the samples, including the date and time.

For the second shipment, Dr. Salcedo turned the coolers and the custody form over to Mr. Yesid Gastelbondo, who delivered them to a member of the National Police for transport to Bogota, under the responsibility of Ms. Suzanne Sheldon In Bogota, the same procedure was repeated when the samples were turned over to a staff member from the clinic. He delivered them officially to Dr. Billy Armando Vargas, Head of the Uribe Cualla Toxicology Laboratory.

The coolers were opened in the presence of Dr. Fernando Flores, a delegate of the National Food and Drug Surveillance Institute (INVIMA). He watched Dr. Vargas verify the contents for subsequent analysis.

According to the protocol for the chain of custody, the only person authorized to open and close the coolers at the beginning and end of each session, in order to verify the presence and condition of all the samples listed on the form, was Dr. Uribe or the person he designated for this purpose. The coolers were to be supervised by members of the team throughout sample collection, storage and shipment.

#### **PROCESSING**

#### Analysis of glyphosate in urine

Glyphosate in urine was analyzed according to the analytical protocol standardized by the CTQ, using high-pressure gas liquid chromatography. The minimum detection limit with this method is 0.1 mg/l. (15)

#### Acetyl-cholinesterase levels in blood

The modified Michel potentiometric colorimetric test was used to measure cholinesterase activity. It measures pH change in the sample, expressed as pH delta units/hour.

Because acetyl-cholinesterase enzyme activity is measured by the pH change it produces in the substrate, heparin (neutral sodium salt) was the anticoagulant used. The anticoagulant EDTA was not used, as it would affect the pH in the sample and produce abnormal results.

#### Analysis of paraguat in urine

A qualitative test was done to detect paraquat in urine by reducing the paraquat cation to a blue ion radical in the presence of an alkaline reactive and sodium dithionite. This procedure is described below.

- Add an alkaline reactive, such as sodium hydroxide, to 10 ml of urine or gastric
  aspirate until the pH is above 9.0 (half a teaspoon to a teaspoon of sodium,
  bicarbonate can be used instead).
- Add a spatula blade of sodium dithionite to the alkalinized urine or gastric aspirate and shake lightly.
- View the tube against a white background. A blue or green color in the solution indicates the presence of paraquat and confirms the diagnosis. With high concentrations of paraquat in the urine, the mixture can turn black. In this case, the test should be repeated with a diluted mixture.
- These methods are capable of detecting concentrations of up to 2 mg/dl and can be semicumulative, if a range of patterns is prepared in reference urine samples.

#### **DATA PROCESSING AND ANALYSIS**

The information and data obtained through the CRI and the laboratory tests described above were processed and analyzed as follows. instruments used to gather data had been filled out, they were reviewed by the field supervisor to make sure the information was complete. 2. An application based on the ACCESS program was then designed to enter the information in a database. 3. The information was entered and the databases established. 4. They were reviewed to eliminate inconsistencies, then exported using the SPSS program. 5. The information was explored. 6. Some of the variables were recoded to facilitate analysis. 7. Frequencies were constructed for each of the study variables and trend measurements (percentages, averages, etc.) were calculated, depending on the type of variable. 8. Contingency tables were constructed to match and evaluate relationships between two categorical 9. Tables and graphs were prepared to present certain selected variables. findings.

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#### **URIBE CUALLA TOXICOLOGY CLINIC**

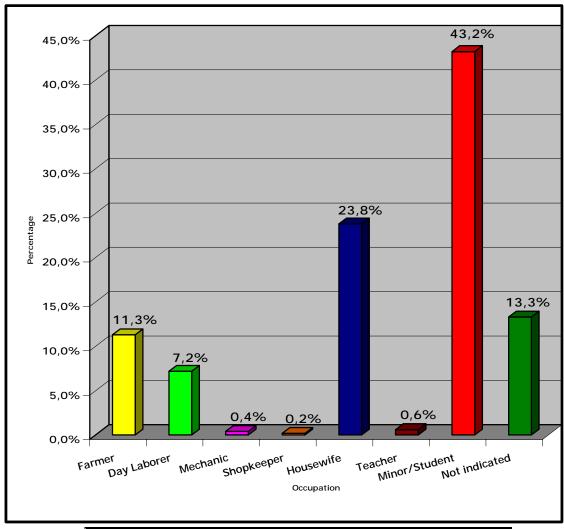
# RETROSPECTIVE STUDY ON REPORTED HUMAN HEALTH EFFECTS FROM GLYPHOSATE EXPOSURE

### **APPENDIX 4**

**GRAPHS ON DEMOGRAPHIC VARIABLES** 

**Department of Putumayo** 

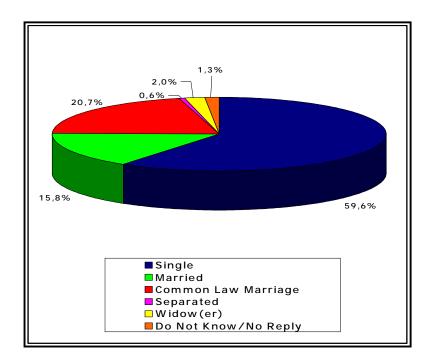
Bogota, D.C., Colombia December, 2001



Graph No. A4- 1
Distribution of the Study Population by Occupation

Occupation	No. Subjects	%
Farmer	55	11.3
Day laborer	35	7.2
Mechanic	2	0.4
Shopkeeper	1	0.2
Housewife	116	23.8
Teacher	3	0.6
Minor/student	211	43.2
Do Not Know/No Reply	65	13.3
TOTAL	488	100.0

Graph No. A4- 2
Distribution of the Study Population by Age



Age	No. Subjects	%
0 -4 years	105	21.5
5-14 years	142	29.1
15- 44 years	215	44.1
45 –59 years	8	1.6
60 years or more	18	3.7
TOTAL	488	100.0

2,0% 1,3% 59,6%

Single Married

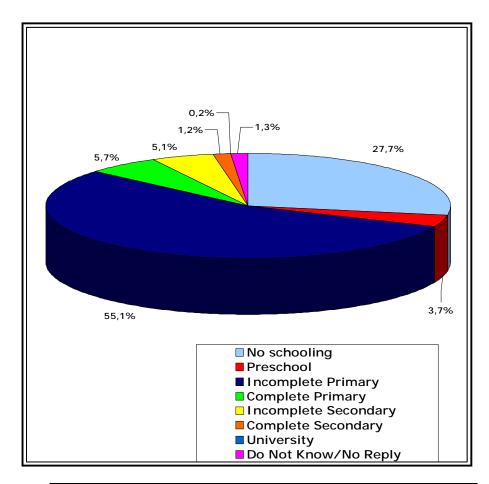
Common Law Marriage Separated

Widow(er) Do Not Know/No Reply

Graph No. A4- 3
Distribution of the Study Population by Marital Status

Marital Status	No. Subjects	%
Single	291	59.6
Married	77	15.8
Common Law Marriage	101	20.7
Separated	3	0.6
Widow(er)	10	2.0
Do No Know / No Reply	6	1.3
TOTAL	488	100.0

Graph No. A4- 4
Distribution of the Study Population by Educational Level



Educational Level	No. Subjects	%
No Schooling	135	27.7
Preschool	18	3.7
Incomplete Primary	269	55.1
Complete Primary	28	5.7
Incomplete Secondary	25	5.1
Complete Secondary	6	1.2
University	1	0.2
Do Not Know / No Reply	6	1.3
TOTAL	488	100.0

#### **EMBASSY OF THE UNITED STATES OF AMERICA**

#### **URIBE CUALLA TOXICOLOGY CLINIC**

# RETROSPECTIVE STUDY ON REPORTED HUMAN HEALTH EFFECTS FROM GLYPHOSATE EXPOSURE

### **APPENDIX 5**

LABORATORY RESULTS

**Department of Putumayo** 

Bogota, D.C., Colombia December, 2001

### LABORATORY RESULTS

CODE	0 Name	1 GLYPHOSATE IN URINE	2 PARAQUAT IN URINE	3 CHOLINESTERA SES IN BLOOD
001	ALBA BERSELIA DIAZ	NOT DETECTABLE	NOT DETECTABLE	100 UΔ pH/hour
003	JOSE DENNIS BERGARA	NOT DETECTABLE	NOT DETECTABLE	120 U∆ pH/hour
005	MARIA CARMENZA DIAL ALVAREZ	NOT DETECTABLE	NOT DETECTABLE	115 U∆ pH/hour
009	SEGUNDO ANIBAL CORDOBA	NOT DETECTABLE	NOT DETECTABLE	NO SAMPLE
011	RASALBA MAYA CARVAJAL	NOT DETECTABLE	NOT DETECTABLE	118 U∆ pH/hour
013	JEFER ALEXANDER LANDAZURI CORTES	NOT DETECTABLE	NOT DETECTABLE	99 U∆ pH/hour
015	ELVIA SANTACRUZ NARVĀEZ	NOT DETECTABLE	NOT DETECTABLE	105 U∆ pH/hour
016	MARIA YOSLENY ENRIQUEZ SANTACRUZ	NOT DETECTABLE	NOT DETECTABLE	139 U∆ pH/hour
017	OMAIRA ISABEL SANTACRUZ NARVAEZ	NOT DETECTABLE	NOT DETECTABLE	NO SAMPLE
018	VICTOR NELSON CUARAN TORO	NOT DETECTABLE	NOT DETECTABLE	NO SAMPLE
019	DIEGO LEIDER CORAL ONGUINO	NOT DETECTABLE	NOT DETECTABLE	105 U∆ pH/hour
021	JAVIER HERNANDO ERAZO BENAVIDES	NOT DETECTABLE	NOT DETECTABLE	135 U∆ pH/hour
022	ARCÁNGEL CEVALLOS YELA	NOT DETECTABLE	NOT DETECTABLE	135 U∆ pH/hour
023	ALBA LUZ PARRA GOMEZ	NOT DETECTABLE	NOT DETECTABLE	100 UΔ pH/hour
025	SANAI ABIGAIL MONOYA ROJAS	NOT DETECTABLE	NOT DETECTABLE	NO SAMPLE
027	ANA LUCIA CORDOBA CERON	NOT DETECTABLE	NOT DETECTABLE	136 U∆ pH/hour
028	ULDARICO ENRIQUEZ GUERRERO	NOT DETECTABLE	NOT DETECTABLE	105 UΔ pH/hour
031	BLANCA LIGIA CAMPAÑA PINEDA	NOT DETECTABLE	NOT DETECTABLE	130 UΔ pH/hour
032	DINEY DIAZ CARLOSAMA	NOT DETECTABLE	NOT DETECTABLE	118 UΔ pH/hour
033	ALEIDER SOLIVER SOLARTE ORDÓÑEZ	NOT DETECTABLE	NOT DETECTABLE	125 U∆ pH/hour
034	DEYANIRA DOMÍNGUEZ	NOT DETECTABLE	NOT DETECTABLE	135 UΔ pH/hour
035	FREDY CORAL CAMPAÑA	NOT DETECTABLE	NOT DETECTABLE	130 UΔ pH/hour
036	SEGUNDO ISAIS CORONEL LOPEZ	NOT DETECTABLE	NOT DETECTABLE	118 UΔ pH/hour
037	JENNY CAROLINA ZOLARTE ORDOÑEZ	NOT DETECTABLE	NOT DETECTABLE	136 UΔ pH/hour
038	GINA MARCELA ZOLARTE ORDOÑEZ	NOT DETECTABLE NOT DETECTABLE	NOT DETECTABLE NOT DETECTABLE	102 UΔ pH/hour
039	MARCELINO ORDÓÑEZ GUZMAN		_	144 U∆ pH/hour
041 043	ALFONSO NASTACUAS JHON FREDY CHAVEZ VALLEJO	NOT DETECTABLE	NOT DETECTABLE NOT DETECTABLE	118 UΔ pH/hour
		NOT DETECTABLE	NOT DETECTABLE	124U∆ pH/hour
044 045	EDUARDO GILBERTO CHAVEZ BRAVO AIDA LUCY CHAVEZ VALLEJO	NOT DETECTABLE NOT DETECTABLE	NOT DETECTABLE	131 UA pH/hour
045	JAVIER ANDRES CHAVEZ VALLEJO	NOT DETECTABLE	NOT DETECTABLE	132 U∆ pH/hour 144 U∆ pH/hour
047	LUZ ALBA VALLEJO PANTOJA	NOT DETECTABLE	NOT DETECTABLE	129 UΔ pH/hour
047	YAILENI REYES AÑASCO	NOT DETECTABLE	NOT DETECTABLE	NO SAMPLE
048	ERNESTO RAMOS	NOT DETECTABLE	NOT DETECTABLE	NO SAMPLE
050	JOSE ERIBERTO NASTACUAS	NOT DETECTABLE	NOT DETECTABLE	NO SAMPLE
050	JUAN CRISTINO CAICEDO	NOT DETECTABLE	NOT DETECTABLE	143 UΔ pH/hour
052	LEYDI JHOANA CORREA SANCHEZ	NOT DETECTABLE	NOT DETECTABLE	129 UΔ pH/hour
053	MARIA CARMEN JUAJIBIOY	NOT DETECTABLE	NOT DETECTABLE	98 UΔ pH/hour
054	JENNY JAZMINE JUAJIBIOY	NOT DETECTABLE	NOT DETECTABLE	90 UΔ pH/hour
057	SEGUNDA PORTILLA	NOT DETECTABLE	NOT DETECTABLE	NO SAMPLE
058	MARITZA LISETH CABRERA	NOT DETECTABLE	NOT DETECTABLE	95 UΔ pH/hour
059	MARIA DEL ROSARIO PORTILLA	NOT DETECTABLE	NOT DETECTABLE	NO SAMPLE
060	EDISON CAMILO ROMBACUAN	NOT DETECTABLE	NOT DETECTABLE	123 UΔ pH/hour
061	CHARLISON ELIAS MADROÑERO PANTOJA	NOT DETECTABLE	NOT DETECTABLE	NO SAMPLE
063	JOSIAS CABRERA	NOT DETECTABLE	NOT DETECTABLE	110 UΔ pH/hour
066	MIGUEL ANONIO IBACHI MAMIAN	NOT DETECTABLE	NOT DETECTABLE	115 UΔ pH/hour
067	DANYERI REYES AÑASCO	NOT DETECTABLE	NOT DETECTABLE	NO SAMPLE
068	PAULA ANDREA VANEGAS ORDOÑEZ	NOT DETECTABLE	NOT DETECTABLE	96 UΔ pH/hour
069	JULIAN MAURICIO CORDOBA	NOT DETECTABLE	NOT DETECTABLE	98 UΔ pH/hour
070	KAREN ALEXANDRA CORDOBA	NOT DETECTABLE	NOT DETECTABLE	128 U∆ pH/hour
071	DIEGO ALEJANDRO CORDOBA VANEGAS	NOT DETECTABLE	NOT DETECTABLE	126 UΔ pH/hour
073	LUZ MERCEDES CARRION CASTILLO	NOT DETECTABLE	NOT DETECTABLE	137 UΔ pH/hour
074	JENNIFER CATALINA CARRION	NOT DETECTABLE	NOT DETECTABLE	126 UΔ pH/hour
075	ECILIA URREGO	NOT DETECTABLE	NOT DETECTABLE	NO SAMPLE
076	AMPARO GLORIA ANACONA SANBOI	NOT DETECTABLE	NOT DETECTABLE	120 UΔ pH/hour
077	ANDRES GUACA	NOT DETECTABLE	NOT DETECTABLE	NO SAMPLE
078	DAYANO CORREA SÁNCHEZ	NOT DETECTABLE	NOT DETECTABLE	128 UΔ pH/hour
079	LUZ DARY PANTOJA	NOT DETECTABLE	NOT DETECTABLE	145 UΔ pH/hour
		•		

080	LUZ BERTA MORALES PORTILLO	NOT DETECTABLE	NOT DETECTABLE	125 U∆ pH/hour
082	JOSE JAIME RODRÍGUEZ	NOT DETECTABLE	NOT DETECTABLE	127U∆ pH/hour
CODIGO	NOMBRE	GLYPHOSATE IN	PARAQUAT IN	CHOLINESTERASES
		URINE	URINE	IN BLOOD
084	ANA RUTH QUETA CRIOLLO	NOT DETECTABLE	NOT DETECTABLE	NO SAMPLE
085	ADRIANA MIRLEY QUETA CRIOLLO	NOT DETECTABLE	NOT DETECTABLE	100 UΔ pH/hour
086 087	ALYDA QUETA CRIOLLO MARCELA CORREA	NOT DETECTABLE NOT DETECTABLE	NOT DETECTABLE NOT DETECTABLE	101 UΔ pH/hour 132 UΔ pH/hour
088	VICTOR RICARDO HUACA	NOT DETECTABLE	NOT DETECTABLE	128 UΔ pH/hour
089	JOSE LUIS RODRÍGUEZ MORALES	NOT DETECTABLE	NOT DETECTABLE	123 UΔ pH/hour
090	PAOLA ANDREA GRANDA MORALES	NOT DETECTABLE	NOT DETECTABLE	128 UΔ pH/hour
091	DUVER ANDRES RODRÍGUEZ MORALES	NOT DETECTABLE	NOT DETECTABLE	101 UΔ pH/hour
092	CRISTIAN ANDRES ESPINOZA RAMOS	NOT DETECTABLE	NOT DETECTABLE	140U∆ pH/hour
093	HEIDI YESID ESPINOSA RAMOS	NOT DETECTABLE	NOT DETECTABLE	103 UΔ pH/hour
094	ESMERALDA VIVI ESPINOSA RAMOS	NOT DETECTABLE	NOT DETECTABLE	134 U∆ pH/hour
096	ANA FANNY YONDA GREGIA	NOT DETECTABLE	NOT DETECTABLE	92 UΔ pH/hour
097	INGRIT ALEXANDRA MACIA REYES	NOT DETECTABLE	NOT DETECTABLE	154 U∆ pH/hour
098	JESÚS ANDERSON REYES BENAVIDES	NOT DETECTABLE	NOT DETECTABLE	110 U∆ pH/hour
099 100	LEYDI ROCIO RODRIGUEZ MORALES	NOT DETECTABLE	NOT DETECTABLE	134 U∆ pH/hour
100	JOSE HUMBERTO JARAMILLO VALENCIA ELSI YARIBET PANTOJA	NOT DETECTABLE NOT DETECTABLE	NOT DETECTABLE NOT DETECTABLE	132 U∆ pH/hour NO SAMPLE
101	ZORAIDA PANTOJA	NOT DETECTABLE	NOT DETECTABLE	NO HAY MUESTRA
103	CENEIDA PANOJA	NOT DETECTABLE	NOT DETECTABLE	110 UΔ pH/hour
104	YAQUELINE PANTOJA	NOT DETECTABLE	NOT DETECTABLE	NO SAMPLE
105	LEIDI PANOJA	NOT DETECTABLE	NOT DETECTABLE	NO SAMPLE
106	MARIA ILIA MORALES	NOT DETECTABLE	NOT DETECTABLE	126U∆ pH/hour
107	DERMI FERNANDO PERDOMO CAMACHO	NOT DETECTABLE	NOT DETECTABLE	103 UΔ pH/hour
108	HERNAN BERRIO PELAEZ	NOT DETECTABLE	NOT DETECTABLE	120 U∆ pH/hour
109	JOSE MIGUEL PELAEZ	NOT DETECTABLE	NOT DETECTABLE	104 U∆ pH/hour
110	NESTOR PELAEZ	NOT DETECTABLE	NOT DETECTABLE	140 UΔ pH/hour
111	MARIBEL GUERRERO HERRERA	NOT DETECTABLE	NOT DETECTABLE	116 U∆ pH/hour
112 114	ANGY LISET GUERRERO ROSERO JOSE VICENTE ROCERO	NOT DETECTABLE NOT DETECTABLE	NOT DETECTABLE NOT DETECTABLE	118 UΔ pH/hour 135 UΔ pH/hour
115	MIGUEL JARAMILLO	NOT DETECTABLE	NOT DETECTABLE	139 UΔ pH/hour
117	ANDREA HIGUA	NOT DETECTABLE	NOT DETECTABLE	132 UΔ pH/hour
118	ANA ELISA HIGUA	NOT DETECTABLE	NOT DETECTABLE	143 U∆ pH/hour
119	JOSE ADAN CUARAN	NOT DETECTABLE	NOT DETECTABLE	99 UΔ pH/hour
120	BLANCA ESTELA CLAROS	NOT DETECTABLE	NOT DETECTABLE	116 UΔ pH/hour
121	YEIRA MANRAI	NOT DETECTABLE	NOT DETECTABLE	NO SAMPLE
122	CRISTIDES CABRERA	NOT DETECTABLE	NOT DETECTABLE	115 U∆ pH/hour
123	KERLY GOMEZ	NOT DETECTABLE	NOT DETECTABLE	NO SAMPLE
124	VIVIAN CASTAÑEDA	NOT DETECTABLE	NOT DETECTABLE	100 UΔ pH/hour
125	BLANCA DIGNA VUPAN PORTILLA	NOT DETECTABLE	NOT DETECTABLE	97 U∆ pH/hour
126 127	GERARDO PORTILLA GEISON ORDÓNEZ	NOT DETECTABLE NOT DETECTABLE	NOT DETECTABLE NOT DETECTABLE	NO SAMPLE
127	GLADIS LOPEZ	NOT DETECTABLE	NOT DETECTABLE	118 U∆ pH/hour 116 U∆ pH/hour
129	ALEXIS MUÑOZ	NOT DETECTABLE	NOT DETECTABLE	160 UΔ pH/hour
130	NAYIBE MUÑOZ	NOT DETECTABLE	NOT DETECTABLE	NO SAMPLE
131	MARIO PANIAGUA	NOT DETECTABLE	NOT DETECTABLE	118 UΔ pH/hour
132	HANNER A COLLAZOS	NOT DETECTABLE	NOT DETECTABLE	118 UΔ pH/hour
133	EBERT RUAREZ	NOT DETECTABLE	NOT DETECTABLE	100 UΔ pH/hour
134	LUIS MIGUEL RUAREZ	NOT DETECTABLE	NOT DETECTABLE	124 UΔ pH/hour
136	GLORIA BASTIDAS	NOT DETECTABLE	NOT DETECTABLE	NO SAMPLE
137	JEFERSON CHAVEZ	NOT DETECTABLE	NOT DETECTABLE	116 UΔ pH/hour
138	ANDREI RUIZ	NOT DETECTABLE	NOT DETECTABLE	94 U∆ pH/hour
139	JENNIFER RENDON	NOT DETECTABLE	NOT DETECTABLE	99 U∆ pH/hour
140 141	GILBERT ORDONEZ	NOT DETECTABLE NOT DETECTABLE	NOT DETECTABLE	109 U∆ pH/hour
141	JULY MONTENEGRO CERLY MILENA REVELO	NOT DETECTABLE	NOT DETECTABLE NOT DETECTABLE	108 U∆ pH/hour NO SAMPLE
143	CARLOS MEJIA	NOT DETECTABLE	NOT DETECTABLE	156 UΔ pH/hour
144	GERMAN SALAZAR	NOT DETECTABLE	NOT DETECTABLE	158 UΔ pH/hour
145	CARLOS MEJIA	NOT DETECTABLE	NOT DETECTABLE	NO SAMPLE
146	ELISET ORDONEZ	NOT DETECTABLE	NOT DETECTABLE	116 UΔ pH/hour
148	DARI IVAN CATILLO	NOT DETECTABLE	NOT DETECTABLE	NO SAMPLE
149	DADICSON DAVIAN CASILLO	NOT DETECTABLE	NOT DETECTABLE	135 UΔ pH/hour
150	MARIA CLAUDI PINCHAO	NOT DETECTABLE	NOT DETECTABLE	NO SAMPLE
154	GEINER ORLANDO ERAZO	NOT DETECTABLE	NOT DETECTABLE	103 UΔ pH/hour
155	BLANCA RUANO	NOT DETECTABLE	NOT DETECTABLE	NO SÄMPLE

156	LUIS ANTONIO CANACUAN	NOT DETECTABLE	NOT DETECTABLE	NO SAMPLE

197 MARIA TRINIDAD BUENO NOT DETECTABLE NOT DETECTABLE IN MOPHOUS AND PHOUSE THE SERVICE AND PROPERTY AND ADMINISTRATION OF THE CONTROL OF TH	CODIGO	NOMBRE	GLYPHOSATE IN URINE	PARAQUAT IN URINE	CHOLINESTERASES IN BLOOD
159 DARWIM ARLEY ADARME 160 YERI MONGUMO 161 RUDI ISLEIDY TONGUINO 161 RUDI ISLEIDY TONGUINO 162 YOLENIYOREL INON DETECTABLE 162 YOLENIYOREL INONGUMO 163 TELEZABETH BASTIDAS 163 ADARMA BOTINA 164 ADARMA BOTINA 165 TELEZABETH BASTIDAS 165 NOT DETECTABLE 166 NOT DETECTABLE 167 NOT DETECTABLE 168 ADARMA BOTINA 169 TELEZABETH BASTIDAS 169 NOT DETECTABLE 169 NOR MARCHA STEVEN 169 NOR ROMEN 169 NOR ROMEN 169 NOR ROMEN 160 NOT DETECTABLE 160 NOT DETECTABLE 160 NOT DETECTABLE 161 NOT DETECTABLE 161 NOT DETECTABLE 162 NOT DETECTABLE 163 NOT DETECTABLE 164 NOT DETECTABLE 165 NOR MARINA 166 NOR MARINA 166 NOR MARINA 167 NOR MARINA 167 NOR MARCHA 168 NOR ROMEN 168 NOR ROMEN 169 NOR ROMEN 169 NOR ROMEN 169 NOR ROMEN 170 LUZ MARRIA MENESES BASTIDAS 169 NOR ROMEN 170 LUZ MARRIA MENESES BASTIDAS 170 LUZ MARRIA MENESES BASTIDAS 170 LUZ MARRIA MENESES BASTIDAS 171 NOT DETECTABLE 171 NOT DETECTABLE 172 TERESA DE JESUS CHAPPUSSGAL 173 NOT DETECTABLE 174 NOR DETECTABLE 175 NOT DETECTABLE 176 NOT DETECTABLE 177 NOT DETECTABLE 177 NOT DETECTABLE 178 NOT DETECTABLE 179 NOT DETECTABLE 170 LUZ MARRIA MENDUA 174 NARIA OBDULIA MENDUA 175 NARIA CAUDIA GRIOLLO 176 NOT DETECTABLE 177 NOT DETECTABLE 178 NOT DETECTABLE 179 NOT DETECTABLE 179 NOT DETECTABLE 179 NOT DETECTABLE 170	157	MARIA TRINIDAD BUENO	NOT DETECTABLE	NOT DETECTABLE	NO SAMPLE
161 RUDI ISLEIDY TONGUINO NOT DETECTABLE NOT DETECTABLE 102 MP PHYDOUR 162 YOLEINI YONGLI MONDOUND NOT DETECTABLE NOT DETECTABLE 159 UA PHYDOUR 163 ELIZABETH BASTIDAS NOT DETECTABLE NOT DETECTABLE 159 UA PHYDOUR 163 ELIZABETH BASTIDAS NOT DETECTABLE NOT DETECTABLE 159 UA PHYDOUR 163 ELIZABETH BASTIDAS NOT DETECTABLE NOT DETECTABLE 159 UA PHYDOUR 163 ELIZABETH BASTIDAS NOT DETECTABLE NOT DETECTABLE 159 UA PHYDOUR 163 ELIZABETH BASTIDAS NOT DETECTABLE NOT DETECTABLE 156 UA PHYDOUR 165 YAMILE BOTINA NOT DETECTABLE NOT DETECTABLE 156 UA PHYDOUR 165 YAMILE BOTINA NOT DETECTABLE NOT DETECTABLE 125 UA PHYDOUR 165 YAMILE BOTINA NOT DETECTABLE NOT DETECTABLE 125 UA PHYDOUR 165 YAMILE BOTINA NOT DETECTABLE NOT D	158		NOT DETECTABLE	NOT DETECTABLE	
161 RUDIISLEIDY TONGUINO NOT DETECTABLE NOT DETECTABLE 109 UA PHPOUR 162 YOLGHINYOREL IMONGUMO NOT DETECTABLE N	159				NO SAMPLE
163   LUZABETH BASTIDAS   NOT DETECTABLE   NOT DETECTABLE   159 UΔ phthour	160	YERI MONGUMO	NOT DETECTABLE	NOT DETECTABLE	NO SAMPLE
163 ELIZABETI BASTIDAS NOT DETECTABLE NOT DETECTABLE 156 UΔ pH/hour 165 YAMILE BOTINA NOT DETECTABLE NOT DETECTABLE 156 UΔ pH/hour 165 YAMILE BOTINA NOT DETECTABLE NOT DE	161	RUDI ISLEIDY TONGUINO	NOT DETECTABLE	NOT DETECTABLE	109 UΔ pH/hour
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164 ADRIANA BOTINA  NOT DETECTABLE  NOT DETECTABLE  168 MARINA CECILIA BUENO  NOT DETECTABLE  169 NOT DETECTABLE  160 NOT DETECTABLE  161 NOT DETECTABLE  160 NOT DETECTABLE  161 NOT DETECTABLE  161 NOT DETECTABLE  162 NOT DETECTABLE  163 NOT DETECTABLE  164 NOT DETECTABLE  165 NOT DETECTABLE  166 NOT DETECTABLE  167 NOT DETECTABLE  168 NOT DETECTABLE  169 NOT DETECTABLE  169 NOT DETECTABLE  160 NOT DETECTABLE  160 NOT DETECTABLE  161 NOT DETECTABLE  161 NOT DETECTABLE  161 NOT DETECTABLE  162 NOT DETECTABLE  163 NOT DETECTABLE  164 NOT DETECTABLE  165 NOT DET					
168 MARINA CECILIA BUENO   NOT DETECTABLE   NOT DETECTABLE   125 UΔ pH/hour   167   VICTOR HUGO RAMOS   NOT DETECTABLE   NOT DETECTABLE   125 UΔ pH/hour   168 MARTA SOTELO   NOT DETECTABLE   NOT DETECTABLE   118 UΔ pH/hour   168 MARTA SOTELO   NOT DETECTABLE					
166   MARINA CECILIA BUENO   NOT DETECTABLE   125 UΔ ph/hour   168   MARTA SOTELO   NOT DETECTABLE   NOT DETECTABLE   NO SAMPLE   169   OMERO MEJIA   NOT DETECTABLE   NOT DETECTABLE   NO SAMPLE   170   OMERO MEJIA   NOT DETECTABLE   NOT DETECTABLE   NO SAMPLE   170   LUZ MARIJA MENESES BASTIDAS   NOT DETECTABLE   NOT DETECTABLE   146 UΔ ph/hour   172   TERESA DE JESUS CHAPUPESGAL   NOT DETECTABLE   NOT DETECTABLE   146 UΔ ph/hour   174   MARIJA OBDULIA MENDUJA   NOT DETECTABLE   NOT DETECTABLE   146 UΔ ph/hour   175   MARIJA CAUDIJA CRIDILO   NOT DETECTABLE   NOT DETECTABLE   165 UΔ ph/hour   176   REMIGIO CRIOLLO   NOT DETECTABLE   NOT DETECTABLE   165 UΔ ph/hour   176   REMIGIO CRIOLLO   NOT DETECTABLE   NOT DETECTABLE   136 UΔ ph/hour   177   LUZ V GRIOLLO   NOT DETECTABLE   NOT DETECTABLE   136 UΔ ph/hour   178   JESUS CRIOLLO   NOT DETECTABLE   NOT DETECTABLE   136 UΔ ph/hour   178   JESUS CRIOLLO   NOT DETECTABLE   NOT DETECTABLE   136 UΔ ph/hour   178   JESUS CRIOLLO   NOT DETECTABLE   NOT DETECTABLE   137   LUB ph/hour   178   JESUS CRIOLLO   NOT DETECTABLE   NOT DETECTABLE   137   LUB ph/hour   189   NURY JANETH CRIOLLO   NOT DETECTABLE   NOT DETECTABLE   118 UΔ ph/hour   180   NURY JANETH CRIOLLO   NOT DETECTABLE   NOT DETECTABLE   118 UΔ ph/hour   181   DELCY CRIOLLO   NOT DETECTABLE   NOT DETECTABLE   118 UΔ ph/hour   182   MELISA EPIFANIA GREFA   NOT DETECTABLE   NOT DETECTABLE   138 UΔ ph/hour   183   ENRIQUE ARTURO GREFA   NOT DETECTABLE   NOT DETECTABLE   123 UΔ ph/hour   184   BORIS ALEJANDRO GREFA   NOT DETECTABLE   NOT DETECTABLE   123 UΔ ph/hour   186   MELANIA JOJOA   NOT DETECTABLE   NOT DETECTABLE   123 UΔ ph/hour   187   JORBE ALBERTINO GREFA   NOT DETECTABLE   NOT DETECTABLE   123 UΔ ph/hour   188   MARIJA SANITHA PASCAL   NOT DETECTABLE   NOT DETECTABLE   123 UΔ ph/hour   189   AUGINA SANITA SANIT					
168 MARTA SOTELO 169 OMERO MEJIA 169 OMERO MEJIA 170 LUZ MARIA MENESES BASTIDAS 171 NOT DETECTABLE 172 TERESA DE JESUS CHAPUESGAL 173 NOT DETECTABLE 174 MARIA OSDULA MENDUA 175 MARIA CLAUDIA CRIOLLO 175 MARIA CLAUDIA CRIOLLO 176 MARIA CLAUDIA CRIOLLO 177 LUCY CRIOLLO 177 LUCY CRIOLLO 177 LUCY CRIOLLO 178 JOHN Y SANCHE 179 JOHN Y CRIOLLO 179 JOHN Y CRIOLLO 179 JOHN Y CRIOLLO 170 NOT DETECTABLE 170 LUCY CRIOLLO 170 NOT DETECTABLE 170 LUCY CRIOLLO 170 NOT DETECTABLE 170 LUCY CRIOLLO 170 NOT DETECTABLE 170 NOT DETECTABLE 170 NOT DETECTABLE 170 NOT DETECTABLE 170 LUCY CRIOLLO 170 NOT DETECTABLE 170 NOT DETECTABLE 170 LUCY CRIOLLO 170 NOT DETECTABLE 170 LUCY CRIOLLO 171 JOHN Y JANETH CRIOLLO 171 JOHN Y JANETH CRIOLLO 172 JOHN Y JANETH CRIOLLO 173 JOHN Y JANETH CRIOLLO 174 NOT DETECTABLE 175 NOT DETECTABLE 175 LUCY CRIOLLO 175 JOHN Y JANETH CRIOLLO 176 NOT DETECTABLE 177 LUCY CRIOLLO 177 LUCY CRIOLLO 177 LUCY CRIOLLO 177 LUCY CRIOLLO 178 JOHN Y JANETH CRIOLLO 179 JOHN Y JANETH CRIOLLO 170 NOT DETECTABLE 170 LUCY CRIOLLO 170 NOT D					
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170 LUZ MARIA MENESES BASTIDAS NOT DETECTABLE NOT DETECTABLE 146 UA pH/hour 172 TRESA DE JESUS CHAPUESGAL NOT DETECTABLE 146 UA pH/hour 174 MARIA GOBULLA MENDUA NOT DETECTABLE NOT DETECTABLE 150 UA pH/hour 175 MARIA CIAUDIA CRIOLLO NOT DETECTABLE 155 UA pH/hour 176 REMIGIO CRIOLLO NOT DETECTABLE NOT DETECTABLE 156 UA pH/hour 177 LUCY CRIOLLO NOT DETECTABLE NOT DETECTABLE 120 UA pH/hour 178 JESUS CRIOLLO NOT DETECTABLE NOT DETECTABLE 139 UA pH/hour 179 JOHANN CRIOLLO NOT DETECTABLE NOT DETECTABLE 110 UA pH/hour 179 JOHANN CRIOLLO NOT DETECTABLE NOT DETECTABLE 111 UA pH/hour 180 NURY JANETH CRIOLLO NOT DETECTABLE NOT DETECTABLE 111 UA pH/hour 181 DELCY CRIOLLO NOT DETECTABLE NOT DETECTABLE 111 UA pH/hour 182 MELISA EPIFANIA GREFA NOT DETECTABLE NOT DETECTABLE 120 UA pH/hour 182 MELISA EPIFANIA GREFA NOT DETECTABLE NOT DETECTABLE 122 UA pH/hour 183 ENRIQUE ARTURO GREFA NOT DETECTABLE NOT DETECTABLE 123 UA pH/hour 184 BORIS ALEJANDRO GREFA NOT DETECTABLE NOT DETECTABLE 123 UA pH/hour 184 BORIS ALEJANDRO GREFA NOT DETECTABLE NOT DETECTABLE 129 UA pH/hour 186 MELANIA JOJOA NOT DETECTABLE NOT DETECTABLE 168 UA pH/hour 186 MELANIA JOJOA NOT DETECTABLE NOT DETECTABLE 180 UA pH/hour 187 JORGE ALEJANDRO GREFA NOT DETECTABLE NOT DETECTABLE 180 UA pH/hour 187 JORGE ALEJANDRO GREFA NOT DETECTABLE NOT DETECTABLE 180 UA pH/hour 188 MARIA SANTHA PASCAL NOT DETECTABLE NOT DETECTABLE 180 UA pH/hour 189 YOLANDRO COX NOT DETECTABLE NOT DETECTABLE 180 UA pH/hour 199 MARIA EDILIA CRIOLLO NOT DETECTABLE NOT DETECTABLE 130 UA pH/hour 199 MARIA EDILIA CRIOLLO NOT DETECTABLE NOT DETECTABLE 131 UA pH/hour 199 GABRIELA AMANDA NOT DETECTABLE NOT DETECTABLE 131 UA pH/hour 199 MARIA EDILIA CRIOLLO NOT DETECTABLE NOT DETECTABLE 131 UA pH/hour 199 MARIA BEDILIA CRIOLLO NOT DETECTABLE NOT DETECTABLE 131 UA pH/hour 199 MARIA MERCEDES GARCIA NOT DETECTABLE NOT DETECTABLE 131 UA pH/hour 199 MARIA BEDILIA CRIOLLO NOT DETECTABLE NOT DETECTABLE 131 UA pH/hour 199 MARIA MERCEDES GARCIA NOT DETECTABLE NOT DETECTABLE 131 UA pH/hour 199 MARIA BEDILIA CRIO					
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176   REMIGIO CRIOLLO   NOT DETECTABLE   NOT DETECTABLE   132 UA pH/hour   178   JESUS CRIOLLO   NOT DETECTABLE   NOT DETECTABLE   115 UA pH/hour   178   JOHANY CRIOLLO   NOT DETECTABLE   NOT DETECTABLE   115 UA pH/hour   180   NURY JANETH CRIOLLO   NOT DETECTABLE   NOT DETECTABLE   116 UA pH/hour   180   NURY JANETH CRIOLLO   NOT DETECTABLE   NOT DETECTABLE   118 UA pH/hour   181   DELCY CRIOLLO   NOT DETECTABLE   NOT DETECTABLE   118 UA pH/hour   182   MELISA EPIFANIA GREFA   NOT DETECTABLE   NOT DETECTABLE   129 UA pH/hour   182   MELISA EPIFANIA GREFA   NOT DETECTABLE   NOT DETECTABLE   129 UA pH/hour   184   BORIS ALEJANDRO GREFA   NOT DETECTABLE   NOT DETECTABLE   129 UA pH/hour   184   BORIS ALEJANDRO GREFA   NOT DETECTABLE   NOT DETECTABLE   120 UA pH/hour   185   PAOLA ANDREA JOJOA   NOT DETECTABLE   NOT DETECTABLE   120 UA pH/hour   186   MELANIA JOJOA   NOT DETECTABLE   NOT DETECTABLE   120 UA pH/hour   186   MELANIA JOJOA   NOT DETECTABLE   NOT DETECTABLE   139 UA pH/hour   187   JORBE A LBERTINO GREFA   NOT DETECTABLE   NOT DETECTABLE   139 UA pH/hour   188   MARIA SANTHA PASCAL   NOT DETECTABLE   NOT DETECTABLE   132 UA pH/hour   189   YOLANDA COX   NOT DETECTABLE   NOT DETECTABLE   132 UA pH/hour   189   YOLANDA COX   NOT DETECTABLE   NOT DETECTABLE   132 UA pH/hour   190   MARIA EDILIA CRIOLLO   NOT DETECTABLE   NOT DETECTABLE   131 UA pH/hour   191   YESID HUIDIZA CHIERQUISAN   NOT DETECTABLE   NOT DETECTABLE   131 UA pH/hour   191   YESID HUIDIZA CHIERQUISAN   NOT DETECTABLE   NOT DETECTABLE   131 UA pH/hour   191   YESID HUIDIZA CHIERQUISAN   NOT DETECTABLE   NOT DETECTABLE   NOT DETECTABLE   131 UA PH/hour   191   YESID HUIDIZA CHIERQUISAN   NOT DETECTABLE					
177 LUCY CRIOLLO NOT DETECTABLE 109 UA pH/hour 178 JESUS CRIOLLO NOT DETECTABLE 115 UA pH/hour 179 JOHANY CRIOLLO NOT DETECTABLE NOT DETECTABLE 116 UA pH/hour 180 NURY JANETH CRIOLLO NOT DETECTABLE NOT DETECTABLE 118 UA pH/hour 181 DELCY CRIOLLO NOT DETECTABLE NOT DETECTABLE 118 UA pH/hour 181 DELCY CRIOLLO NOT DETECTABLE NOT DETECTABLE 118 UA pH/hour 181 DELCY CRIOLLO NOT DETECTABLE NOT DETECTABLE 123 UA pH/hour 182 MELISA EPIFANIA GREFA NOT DETECTABLE NOT DETECTABLE 123 UA pH/hour 183 ENRIGUE ARTURO GREFA NOT DETECTABLE NOT DETECTABLE 123 UA pH/hour 184 BORIS ALE JANDRO GREFA NOT DETECTABLE NOT DETECTABLE 123 UA PH/hour 185 PAOLA ANDREA JOJOA NOT DETECTABLE NOT DETECTABLE 168 UA PH/hour 186 MELANIA JOJOA NOT DETECTABLE NOT DETECTABLE 168 UA PH/hour 187 JORBE ALBERTINO GREFA NOT DETECTABLE NOT DETECTABLE 139 UA PH/hour 188 MARIA SANTHA PASCAL NOT DETECTABLE NOT DETECTABLE 139 UA PH/hour 188 MARIA SANTHA PASCAL NOT DETECTABLE NOT DETECTABLE 139 UA PH/hour 190 MARIA EDILIA CRIOLLO NOT DETECTABLE NOT DETECTABLE 139 UA PH/hour 190 MARIA EDILIA CRIOLLO NOT DETECTABLE NOT DETECTABLE 139 UA PH/hour 191 YESID HUIDIZA CHERQUISAN NOT DETECTABLE NOT DETECTABLE 139 UA PH/hour 192 GABRIELA AMANDA NOT DETECTABLE NOT DETECTABLE 139 UA PH/hour 194 FREDY ARBEY HUARAQUE NOT DETECTABLE NOT DET					
178    JESUS CRIOLLO					
179 JOHANY CRIOLLO  NOT DETECTABLE  NOT DETECTABLE  118 UN DIFFLORIDATE  181 DELCY CRIOLLO  NOT DETECTABLE  NOT DETECTABLE  NOT DETECTABLE  118 UA pH/hour  182 MELISA EPIFANIA GREFA  NOT DETECTABLE  NOT DETECTABLE  129 UA pH/hour  183 ENRIQUE ARTURO GREFA  NOT DETECTABLE  NOT DETECTABLE  129 UA pH/hour  184 BORIS ALEJANDRO GREFA  NOT DETECTABLE  NOT DETECTABLE  129 UA pH/hour  185 PAOLA ANDREA JOJOA  NOT DETECTABLE  NOT DETECTABLE  162 UA pH/hour  186 MELANIA JOJOA  NOT DETECTABLE  187 UA PH/hour  188 MELANIA JOJOA  NOT DETECTABLE  189 UA PH/hour  189 MELANIA JOJOA  NOT DETECTABLE  180 NOT DETECTABLE  181 UA PH/hour  181 JOJOE ALBERTINO GREFA  NOT DETECTABLE  NOT DETECTABLE  181 UA PH/hour  182 UA PH/hour  183 MARIA SANTHA PASCAL  NOT DETECTABLE  NOT DETECTABLE  181 UA PH/hour  189 VOLANDA COX  NOT DETECTABLE  NOT DETECTABLE  180 UA PH/hour  180 MARIA SANTHA PASCAL  NOT DETECTABLE  NOT DETECTABLE  181 UA PH/hour  181 UA PH/Hour  182 GABRIELA AMANDA  NOT DETECTABLE  NOT DETECTABLE  NOT DETECTABLE  181 UA PH/hour  182 GABRIELA AMANDA  NOT DETECTABLE  NOT DETECTABLE  181 UA PH/hour  182 GABRIELA AMANDA  NOT DETECTABLE  NOT DETECTABLE  181 UA PH/hour  182 GABRIELA AMANDA  NOT DETECTABLE  NOT DETECTABLE  181 UA PH/hour  184 FREDY ARBEY HUARAQUE  NOT DETECTABLE  N					
180   NURY JANETH CRIOLLO   NOT DETECTABLE   NOT DETECTABLE   132 UA pH/hour     181   DELCY CRIOLLO   NOT DETECTABLE   NOT DETECTABLE   132 UA pH/hour     182   MELISA EPIFANIA GREFA   NOT DETECTABLE   NOT DETECTABLE   123 UA pH/hour     183   ENRIQUE ARTURO GREFA   NOT DETECTABLE   NOT DETECTABLE     184   BORIS ALEJANDRO GREFA   NOT DETECTABLE   NOT DETECTABLE   168 UA pH/hour     185   PAOLA ANDREA JOJOA   NOT DETECTABLE   NOT DETECTABLE   168 UA pH/hour     186   MELIANIA JOJOA   NOT DETECTABLE   NOT DETECTABLE   169 UA pH/hour     187   JORBE ALBERTINO GREFA   NOT DETECTABLE   NOT DETECTABLE     188   MELIANIA JOJOA   NOT DETECTABLE   NOT DETECTABLE   139 UA pH/hour     188   MARIA SANITHA PASCAL   NOT DETECTABLE   NOT DETECTABLE   131 UA pH/hour     189   YOLANDA COX   NOT DETECTABLE   NOT DETECTABLE   131 UA pH/hour     190   MARIA EDILIA CRIOLLO   NOT DETECTABLE   NOT DETECTABLE   132 UA pH/hour     191   YESID HUIDIZA CHERQUISAN   NOT DETECTABLE   NOT DETECTABLE   131 UA pH/hour     192   GABRIELA AMANDA   NOT DETECTABLE   NOT DETECTABLE   211 UA pH/hour     194   FREDY ARBEY HUARAQUE   NOT DETECTABLE   NOT DETECTABLE   131 UA pH/hour     195   AGUSTIN RAMOS   NOT DETECTABLE   NOT DETECTABLE   131 UA pH/hour     196   CRISTOBAL GREFA   NOT DETECTABLE   NO SAMPLE     197   MACARIA QUETA   NOT DETECTABLE   NO SAMPLE     198   MARIA MERCEDES GARCIA   NOT DETECTABLE   NO SAMPLE     199   MACARIA QUETA   NOT DETECTABLE   NO SAMPLE     199   MACARIA QUETA   NOT DETECTABLE   NO DETECTABLE   NO SAMPLE     190   DAVID EMILIANO QUETA   NOT DETECTABLE   NOT DETECTABLE   NO SAMPLE     191   VESID IMANIA MIRICA GARCIA   NOT DETECTABLE   NOT DETECTABLE   NO SAMPLE     192   DAVID EMILIANO QUETA   NOT DETECTABLE   NOT DETECTABLE   NO SAMPLE     190   DAVID EMILIANO QUETA   NOT DETECTABLE   NOT DETECTABLE   NO SAMPLE     191   OTTO DETECTABLE   NOT DETECTABLE   NO SAMPLE     192   OTTO DAVID EMILIANO QUETA   NOT DETECTABLE   NOT DETECTABLE   NOT DETECTABLE   NO SAMPLE     201   DAVID EMILIANO QUETA   NOT DETECTABLE					116 LIA pH/hour
181 DELCY CRIOLLO  NOT DETECTABLE  NOT DETECTABLE  NOT DETECTABLE  NOT DETECTABLE  182 LA PH/Nour  183 ENRIQUE ARTURO GREFA  NOT DETECTABLE  NOT DETECTABLE  NOT DETECTABLE  NOT DETECTABLE  184 BORIS ALEJANDRO GREFA  NOT DETECTABLE  NOT DETECTABLE  NOT DETECTABLE  185 LA PH/Nour  186 PAOLA ANDREA JOJOA  NOT DETECTABLE  NOT DETECTABLE  186 MELANIA JOJOA  NOT DETECTABLE  NOT DETECTABLE  187 LA PH/Nour  187 JORBE ALBERTINO GREFA  NOT DETECTABLE  NOT DETECTABLE  NOT DETECTABLE  188 MARIA SANTHA PASCAL  NOT DETECTABLE  189 LA PH/Nour  189 YOLANDA COX  NOT DETECTABLE  NOT DETECTABLE  NOT DETECTABLE  181 LA PH/Nour  189 MARIA SANTHA PASCAL  NOT DETECTABLE  NOT DETECTABLE  NOT DETECTABLE  181 LA PH/Nour  180 MARIA SANTHA PASCAL  NOT DETECTABLE  NOT DETECTABLE  181 LA PH/Nour  189 MARIA SANTHA PASCAL  NOT DETECTABLE  NOT DETECTABLE  181 LA PH/Nour  191 YESID HUIDIZ CHERQUISAN  NOT DETECTABLE  NOT DETECTABLE  196 LA PH/Nour  191 YESID HUIDIZ CHERQUISAN  NOT DETECTABLE  NOT DETECTABLE  197 LA PEDEV ARBEY HUARAQUE  NOT DETECTABLE  NOT DETECTABLE  198 LA PH/NOUR  199 AGUSTIN RAMOS  NOT DETECTABLE  NOT DETECTABLE  NOT DETECTABLE  NOT DETECTABLE  NO SAMPLE  198 AGUSTIN RAMOS  NOT DETECTABLE  NOT DETECTABLE  NO SAMPLE  199 MACARIA QUETA  NOT DETECTABLE  NOT DETECTABLE  NO SAMPLE  198 MARIA MERCEDES GARCIA  NOT DETECTABLE  NOT DETECTABLE  NOT DETECTABLE  NO SAMPLE  199 MACARIA QUETA  NOT DETECTABLE  NOT DETECTABLE  NOT DETECTABLE  NO SAMPLE  199 JEISON ADRIAN QUETA  NOT DETECTABLE  NOT DETECTABLE  NOT DETECTABLE  116 LU PH/Nour  200 DAVID EMILIANO QUETA  NOT DETECTABLE  NOT DETECTABLE  NOT DETECTABLE  116 LU PH/Nour  201 YOSI NATALY QUETA GARCIA  NOT DETECTABLE  NOT DETECTABLE  116 LU PH/Nour  202 LISETH JIMENA QUETA  NOT DETECTABLE  NOT DETECTABLE  NOT DETECTABLE  116 LU PH/NOUR  203 DERLY YANESA QUETA  NOT DETECTABLE  NOT DETECTABLE  NOT DETECTABLE  116 LU PH/NOUR  204 LESLI NAIBET MONDES GREFA  NOT DETECTABLE  NOT DETECTABLE  NOT DETECTABLE  NOT DETECTABLE  102 LU PH/NOUR  203 DERLY YANESA QUETA  NOT DETECTABLE  NOT DETECTAB					
182   MELISA EPIFANIA GREFA   NOT DETECTABLE   129 UΔ pH/hour   183   ENRIQUE ARTURO GREFA   NOT DETECTABLE   NOT DETECTABLE   123 UΔ pH/hour   184   BORIS ALEJANDRO GREFA   NOT DETECTABLE   NOT DETECTABLE   162 UΔ pH/hour   185   PAOLA ANDREA JOJOA   NOT DETECTABLE   NOT DETECTABLE   162 UΔ pH/hour   186   MELANIA JOJOA   NOT DETECTABLE   NOT DETECTABLE   182 UΔ pH/hour   187   JORBE ALBERTINO GREFA   NOT DETECTABLE   NOT DETECTABLE   189 UΔ pH/hour   189   MARIA SANTHA PASCAL   NOT DETECTABLE   NOT DETECTABLE   180 UΔ pH/hour   189   YOLANDA COX   NOT DETECTABLE   NOT DETECTABLE   181 UΔ pH/hour   189   YOLANDA COX   NOT DETECTABLE   NOT DETECTABLE   181 UΔ pH/hour   189   YOLANDA COX   NOT DETECTABLE   NOT DETECTABLE   181 UΔ pH/hour   191   YESID HUIDIZA CHERQUISAN   NOT DETECTABLE   NOT DETECTABLE   96 UΔ pH/hour   182   GABRIELA AMANDA   NOT DETECTABLE   NOT DETECTABLE   181 UΔ pH/hour   182   GABRIELA AMANDA   NOT DETECTABLE   NOT DETECTABLE   181 UΔ pH/hour   185   AGUSTIN RAMIOS   NOT DETECTABLE   NOT DETECTABLE   181 UΔ pH/hour   185   AGUSTIN RAMIOS   NOT DETECTABLE   NOT DETECTABLE   NOT SETECTABLE   NOT SETECTABLE   NOT SAMPLE   197   MACARIA QUETA   NOT DETECTABLE   NOT DETECTABLE   NOT SAMPLE   197   MACARIA QUETA   NOT DETECTABLE   NOT DETECTABLE   NOT SAMPLE   198   MARIA MERCEDES GARCIA   NOT DETECTABLE   N					
183					
184 BORIS ALEJANDRO GREFA  NOT DETECTABLE  185 PAOLA ANDREA JOJOA  NOT DETECTABLE  186 MELANIA JOJOA  NOT DETECTABLE  187 JORBE ALBERTINO GREFA  NOT DETECTABLE  188 MELANIA JOJOA  NOT DETECTABLE  189 UA pH/hour  187 JORBE ALBERTINO GREFA  NOT DETECTABLE  180 MELANIA JOJOA  NOT DETECTABLE  181 WA pH/hour  188 MARIA SANTHA PASCAL  NOT DETECTABLE  NOT DETECTABLE  181 UA pH/hour  189 YOLANDA COX  NOT DETECTABLE  NOT DETECTABLE  181 UA pH/hour  189 YOLANDA COX  NOT DETECTABLE  NOT DETECTABLE  181 UA pH/hour  190 MARIA EDILIA CRIOLLO  NOT DETECTABLE  NOT DETECTABLE  190 UA pH/hour  191 YESID HUIDIZA CHERQUISAN  NOT DETECTABLE  NOT DETECTABLE  191 UA pH/hour  192 GABRIELA MANDDA  NOT DETECTABLE  NOT DETECTABLE  191 UA pH/hour  194 FREDY ARBEY HUARAQUE  NOT DETECTABLE  NOT DETECTABLE  NOT DETECTABLE  193 UA pH/hour  195 AGUSTIN RAMOS  NOT DETECTABLE  NOT DETECTABLE  NOT DETECTABLE  196 UA pH/hour  197 MACARIA QUETA  NOT DETECTABLE  NOT DETECTABLE  NOT DETECTABLE  198 WARIA BMRECEDES GARCIA  NOT DETECTABLE  NOT DETECTABLE  NOT DETECTABLE  199 JEISON ADRIAN QUETA  NOT DETECTABLE  NOT DETECTABLE  105 UA pH/hour  200 DAVID EMILIANO QUETA  NOT DETECTABLE  NOT DETECTABLE  105 UA pH/hour  201 LISETH JIMENA QUETA  NOT DETECTABLE  NOT DETECTABLE  107 DETECTABLE  108 UA pH/hour  203 DERLY VANESA QUETA  NOT DETECTABLE  NOT DETECTABLE  109 UA pH/hour  204 LISETH NAMENA  NOT DETECTABLE  NOT DETECTABLE  108 UA pH/hour  205 ANDI NANTH MONTES GREFA  NOT DETECTABLE  NOT DETECTABLE  109 UA pH/hour  206 JUANA CAMILA GREFA  NOT DETECTABLE  NOT DETECTABLE  109 UA pH/hour  207 OLGA PATRICABA  NOT DETECTABLE  NOT DETECTABLE  109 UA pH/hour  208 VERONICA ANDREA  NOT DETECTABLE  NOT DETECTABLE  109 UA pH/hour  209 VERONICA ANDREA  NOT DETECTABLE  NOT DETECTABLE  101 UA pH/hour  201 LISES OUETA  NOT DETECTABLE  NOT DETECTABLE  102 UA pH/hour  203 DERLY VANESA QUETA  NOT DETECTABLE  NOT DETECTABLE  101 UA pH/hour  204 LIESLI NABET MONES GREFA  NOT DETECTABLE  NOT DETECTABLE  100 UA pH/hour  207 OLGA PATRICABA  NOT DETECTABLE  NOT DETECTABLE  10					
185 PAOLA ANDREA JOJOA NOT DETECTABLE NOT DETECTABLE 162 UA pH/hour 186 MELANIA JOJOA NOT DETECTABLE NOT DETECTABLE 139 UA PH/hour 187 JORBE ALBERTINO GREFA NOT DETECTABLE NOT DETECTABLE 118 UA pH/hour 188 MARIA SANTHA PASCAL NOT DETECTABLE NOT DETECTABLE 118 UA pH/hour 189 YOLANDA COX NOT DETECTABLE NOT DETECTABLE 116 UA pH/hour 190 MARIA EDILIA CRIOLLO NOT DETECTABLE NOT DETECTABLE 116 UA pH/hour 191 YESID HUIDIZA CHERQUISAN NOT DETECTABLE NOT DETECTABLE 121 UA pH/hour 192 GABRIELA AMANDA NOT DETECTABLE NOT DETECTABLE 121 UA pH/hour 194 FREDY ARBEY HUARAQUE NOT DETECTABLE NOT DETECTABLE 131 UA pH/hour 195 AGUSTIN RAMOS NOT DETECTABLE NOT DETECTABLE NO SAMPLE 196 CRISTOBAL GREFA NOT DETECTABLE NOT DETECTABLE NO SAMPLE 197 MACARIA QUETA NOT DETECTABLE NOT DETECTABLE NO SAMPLE 198 MARIA MERCEDES GARCIA NOT DETECTABLE NOT DETECTABLE 110 UA pH/hour 199 JEISON ADRIAN QUETA NOT DETECTABLE NOT DETECTABLE 110 UA pH/hour 200 DAVID EMILIANO QUETA NOT DETECTABLE NOT DETECTABLE 110 UA pH/hour 201 YOSI NATALY QUETA NOT DETECTABLE 121 UA pH/hour 202 LISETH JIMENA QUETA NOT DETECTABLE NOT DETECTABLE 122 UA pH/hour 203 DERLY VANESA QUETA NOT DETECTABLE NOT DETECTABLE 123 UA pH/hour 204 LESLI NAIBEST MONES GREFA NOT DETECTABLE NOT DETECTABLE 123 UA pH/hour 205 ANDI VANIT MONTES GREFA NOT DETECTABLE NOT DETECTABLE 123 UA pH/hour 206 JUANDA CAMILA GREFA NOT DETECTABLE NOT DETECTABLE 123 UA pH/hour 207 OLGA PATRICIA GREFA NOT DETECTABLE NOT DETECTABLE 123 UA pH/hour 208 DERLY VANESA QUETA NOT DETECTABLE NOT DETECTABLE 120 UA pH/hour 209 YESICA ANDREA QUETA NOT DETECTABLE NOT DETECTABLE 120 UA pH/hour 206 JUANDA CAMILA GREFA NOT DETECTABLE NOT DETECTABLE 120 UA pH/hour 207 OLGA PATRICIA GREFA NOT DETECTABLE NOT DETECTABLE 130 UA pH/hour 208 VERONICA ANDREA GREFA NOT DETECTABLE NOT DETECTABLE 130 UA pH/hour 209 YESICA ANDREA QUETA NOT DETECTABLE NOT DETECTABLE NOT DETECTABLE 130 UA pH/hour 210 ELISEO QUETA QUINTERO NOT DETECTABLE NOT DETECTABLE NOT DETECTABLE NO SAMPLE 210 ELISEO QUETA QUINTERO NOT DETECTABLE NOT DETECTABLE NO SAMP					
186   MELANIA JOJOA   NOT DETECTABLE   NOT DETECTABLE   139 UA pH/hour   187   JORBE ALBERTINO GREFA   NOT DETECTABLE   NOT DETECTABLE   118 UA pH/hour   188   MARIA SANTHA PASCAL   NOT DETECTABLE   NOT DETECTABLE   132 UA pH/hour   189   YOLANDA COX   NOT DETECTABLE   NOT DETECTABLE   116 UA pH/hour   190   MARIA EDILIA CRIOLLO   NOT DETECTABLE   NOT DETECTABLE   90 UA pH/hour   191   YESID HUIDIZA CHERQUISAN   NOT DETECTABLE   NOT DETECTABLE   121 UA pH/hour   192   GABRIELA AMANDA   NOT DETECTABLE   NOT DETECTABLE   121 UA pH/hour   192   GABRIELA AMANDA   NOT DETECTABLE   NOT DETECTABLE   125 UA pH/hour   194   FREDY ARBEY HUARAQUE   NOT DETECTABLE   NOT DETECTABLE   125 UA pH/hour   195   AGUSTIN RAMOS   NOT DETECTABLE   NOT DETECTABLE   NO SAMPLE   196   CRISTOBAL GREFA   NOT DETECTABLE   NOT DETECTABLE   NO SAMPLE   197   MACARIA QUETA   NOT DETECTABLE   NOT DETECTABLE   NO SAMPLE   197   MACARIA QUETA   NOT DETECTABLE   NOT DETECTABLE   116 UA pH/hour   198   MARIA MERCEDES GARCIA   NOT DETECTABLE   NOT DETECTABLE   116 UA pH/hour   199   JEISON ADRIAN QUETA   NOT DETECTABLE   NOT DETECTABLE   116 UA pH/hour   100   DAVID EMILIANO QUETA   NOT DETECTABLE   NOT DETECTABLE   100 UA pH/hour   100   DAVID EMILIANO QUETA   NOT DETECTABLE   NOT DETECTABLE   100 UA pH/hour   201   YOSI NATALY QUETA   GARCIA   NOT DETECTABLE   NOT DETECTABLE   110 UA pH/hour   202   LISETH JIMENA QUETA   NOT DETECTABLE   100 UA pH/hour   203   DERLY VANESA QUETA   NOT DETECTABLE   NOT DETECTABLE   110 UA pH/hour   204   LESLI NAIBET MONES GREFA   NOT DETECTABLE   101 UA pH/hour   205   ANDI VANITI MONTES GREFA   NOT DETECTABLE   NOT DETECTABLE   110 UA pH/hour   205   ANDI VANITI MONTES GREFA   NOT DETECTABLE   NOT DETECTABLE   101 UA pH/hour   205   ANDI VANITI MONTES GREFA   NOT DETECTABLE   NOT DETECTABLE   101 UA pH/hour   205   ANDI VANITI MONTES GREFA   NOT DETECTABLE   NOT DETECTABLE   101 UA pH/hour   205   ANDI VANITI MONTES GREFA   NOT DETECTABLE   NOT DETECTABLE   101 UA pH/hour   205   ANDI VANITI MONTES GREFA   NO					
187 JORBE ALBERTINO GREFA  NOT DETECTABLE  NOT DETECTABLE  NOT DETECTABLE  188 MARIA SANTHA PASCAL  NOT DETECTABLE  NOT DETECTABLE  NOT DETECTABLE  118 UA pH/hour  189 YOLANDA COX  NOT DETECTABLE  NOT DETECTABLE  NOT DETECTABLE  116 UA pH/hour  190 MARIA EDILIA CRIOLLO  NOT DETECTABLE  NOT DETECTABLE  90 UA pH/hour  191 YESID HUIDIZA CHERQUISAN  NOT DETECTABLE  192 GABRIELA AMANDA  NOT DETECTABLE  NOT DETECTABLE  131 UA pH/hour  194 FREDY ARBEY HUARAQUE  NOT DETECTABLE  NOT DETECTABLE  131 UA pH/hour  195 AGUSTIN RAMOS  NOT DETECTABLE  NOT DETECTABLE  196 CRISTOBAL GREFA  NOT DETECTABLE  197 MACARIA QUETA  NOT DETECTABLE  197 MACARIA QUETA  NOT DETECTABLE  198 MARIA MERCEDES GARCIA  NOT DETECTABLE  NOT DETECTABLE  116 UA pH/hour  199 JEISON ADRIAN QUETA  NOT DETECTABLE  NOT DETECTABLE  NOT DETECTABLE  NO SAMPLE  197 MACARIA QUETA  NOT DETECTABLE  105 UA pH/hour  198 MARIA MERCEDES GARCIA  NOT DETECTABLE  NOT DETECTABLE  105 UA pH/hour  200 DAVID EMILIANO QUETA  NOT DETECTABLE  NOT DETECTABLE  105 UA pH/hour  201 YOSI NATALY QUETA GARCIA  NOT DETECTABLE  NOT DETECTABLE  107 US DETECTABLE  108 UA pH/hour  202 LISETH JIMENA QUETA  NOT DETECTABLE  NOT DETECTABLE  109 UA pH/hour  203 DERLY VANESA QUETA  NOT DETECTABLE  NOT DETECTABLE  118 UA pH/hour  204 LESLI NAISET MONES GREFA  NOT DETECTABLE  NOT DETECTABLE  123 UA pH/hour  205 ANDIVANIT MONTES GREFA  NOT DETECTABLE  NOT DETECTABLE  118 UA pH/hour  206 JUANA CAMILA GREFA  NOT DETECTABLE  NOT DETECTABLE  119 UA pH/hour  207 OLGA PATRICIA GREFA  NOT DETECTABLE  NOT DETECTABLE  119 UA pH/hour  208 VERONICA ANDREA GUETA  NOT DETECTABLE  NOT DETECTABLE  110 UA PH/hour  209 YESICA ANDREA GUETA  NOT DETECTABLE  NOT DETECTABLE  110 UA PH/hour  201 JUANA CARIA  NOT DETECTABLE  NOT DETECTABLE  110 UA PH/hour  208 UARRACARIA  NOT DETECTABLE  NOT DETECTABLE  110 UA PH/hour  209 VESICA ANDREA GUETA  NOT DETECTABLE  NOT DETECTABLE  110 UA PH/hour  210 LISEO QUETA QUINTERO  NOT DETECTABLE  NOT DETECTABLE  110 UA PH/hour  211 LUIS CADENA  NOT DETECTABLE  NOT DETECTABLE  100 UA P					
188         MARIA SANTHA PASCAL         NOT DETECTABLE         NOT DETECTABLE         132 μΔ pH/hour           189         YOLANDA COX         NOT DETECTABLE         NOT DETECTABLE         116 μΔ pH/hour           190         MARIA EDILIA CRIOLLO         NOT DETECTABLE         NOT DETECTABLE         120 μΔ pH/hour           191         YESID HUIDIZA CHERQUISAN         NOT DETECTABLE         NOT DETECTABLE         121 μΔ pH/hour           192         GABRIELA AMANDA         NOT DETECTABLE         NOT DETECTABLE         121 μΔ pH/hour           194         FREDY ARBEY HUARAQUE         NOT DETECTABLE         NOT DETECTABLE         131 μΔ pH/hour           195         AGUSTIN RAMOS         NOT DETECTABLE         NOT DETECTABLE         NO SAMPLE           196         CRISTOBAL GREFA         NOT DETECTABLE         NOT DETECTABLE         NO SAMPLE           197         MACARIA QUETA         NOT DETECTABLE         NOT DETECTABLE         105 μΔ pH/hour           198         MERIA MERCEDES GARCIA         NOT DETECTABLE         NOT DETECTABLE         116 μΔ pH/hour           200         DAVID EMILIANO QUETA         NOT DETECTABLE         NOT DETECTABLE         120 μΔ μΗ/hour           201         YOSI NATALY QUETA GARCIA         NOT DETECTABLE         NOT DETECTABLE         123 μΔ μΗ/hour					
189 YOLANDA COX 190 MARIA EDILIA CRIOLLO 191 MARIA EDILIA CRIOLLO 192 MARIA EDILIA CRIOLLO 193 MARIA EDILIA CRIOLLO 194 YESID HUIDIZA CHERQUISAN 195 NOT DETECTABLE 196 NOT DETECTABLE 197 MARIA EDILIA CRIOLLO 198 GABRIELA AMANDA 199 GABRIELA AMANDA 190 MARIA EDILIA CRIOLLO 199 GABRIELA AMANDA 190 NOT DETECTABLE 191 NOT DETECTABLE 191 NOT DETECTABLE 191 NOT DETECTABLE 193 LO DETECTABLE 195 AGUSTIN RAMOS 196 CRISTOBAL GREFA 197 MACARIA QUETA 198 MARIA MERCEDES GARCIA 198 MARIA MERCEDES GARCIA 199 JEISON ADRIAN QUETA 199 JEISON ADRIAN QUETA 190 DAVID EMILIANO QUETA 190 DAVID EMILIANO QUETA 190 DAVID EMILIANO QUETA 191 NOT DETECTABLE 192 NOT DETECTABLE 193 NOT DETECTABLE 194 LO DAVID EMILIANO 195 AGUSTIN RAMOS 196 CRISTOBAL GREFA 197 MACARIA QUETA 198 MARIA MERCEDES GARCIA 199 JEISON ADRIAN QUETA 199 JEISON ADRIAN QUETA 190 DAVID EMILIANO 190 DAVID EMILIANO 191 QUETA 190 DAVID EMILIANO 191 DETECTABLE 191 NOT DETECTABLE 191 NOT DETECTABLE 192 LUSETH JIMENA 194 NOT DETECTABLE 195 NOT DETECTABLE 196 LO DAVID EMILIANO 197 DETECTABLE 198 NOT DETECTABLE 199 LUSETH JIMENA 199 JEISON ADRIAN 199 JEISON ADR					
190   MARIA EDILIA CRIOLLO   NOT DETECTABLE   96 UΔ pH/hour   191   YESID HUIDIZA CHERQUISAN   NOT DETECTABLE   NOT DETECTABLE   121 UΔ pH/hour   192   GABRIELA AMIANDA   NOT DETECTABLE   NOT DETECTABLE   131 UΔ pH/hour   194   FREDY ARBEY HUARAQUE   NOT DETECTABLE   NOT DETECTABLE   125 UΔ pH/hour   195   AGUSTIN RAMOS   NOT DETECTABLE   NOT DETECTABLE   NOT DETECTABLE   NOT SAMPLE   196   CRISTOBAL GREFA   NOT DETECTABLE   NOT DETECTABLE   NO SAMPLE   197   MACARIA QUETA   NOT DETECTABLE   NOT DETECTABLE   NO SAMPLE   197   MACARIA QUETA   NOT DETECTABLE   NOT DETECTABLE   116 UΔ pH/hour   198   MARIA MERCEDES GARCIA   NOT DETECTABLE   NOT DETECTABLE   105 UΔ pH/hour   199   JEISON ADRIAN QUETA   NOT DETECTABLE   NOT DETECTABLE   120 UΔ pH/hour   200   DAVID EMILIANO QUETA   NOT DETECTABLE   NOT DETECTABLE   120 UΔ pH/hour   201   YOSI NATALY QUETA   GARCIA   NOT DETECTABLE   NOT DETECTABLE   120 UΔ pH/hour   202   LISETH JIMENA QUETA   NOT DETECTABLE   NOT DETECTABLE   115 UΔ pH/hour   203   DERLY VANESA QUETA   NOT DETECTABLE   NOT DETECTABLE   115 UΔ pH/hour   204   LESLI NAIBET MONES GREFA   NOT DETECTABLE   NOT DETECTABLE   123 UΔ pH/hour   205   ANDI VANIT MONTES GREFA   NOT DETECTABLE   NOT DETECTABLE   18 UΔ pH/hour   206   JUJANA CAMILA GREFA   NOT DETECTABLE   NOT DETECTABLE   110 UΔ pH/hour   207   OLGA PATRICIA GREFA   NOT DETECTABLE   NOT DETECTABLE   NO SAMPLE   208   VERONICA ANDREA QUETA   NOT DETECTABLE   NOT DETECTABLE   NO SAMPLE   209   VERONICA ANDREA QUETA   NOT DETECTABLE   NOT DETECTABLE   NO SAMPLE   209   VERONICA ANDREA QUETA   NOT DETECTABLE   NOT DETECTABLE   NO SAMPLE   209   VERONICA ANDREA QUETA   NOT DETECTABLE   NOT DETECTABLE   NO SAMPLE   209   VERONICA ANDREA QUETA   NOT DETECTABLE   NOT DETECTABLE   NO SAMPLE   209   VERONICA ANDREA QUETA   NOT DETECTABLE   NOT DETECTABLE   NO SAMPLE   209   VERONICA ANDREA QUETA   NOT DETECTABLE   NOT DETECTABLE   NO SAMPLE   209   VERONICA ANDREA QUETA   NOT DETECTABLE   NOT DETECTABLE   NO SAMPLE   210   LISEO QUETA QUINTERO   NOT D					
191 YESID HUIDIZA CHERQUISAN  NOT DETECTABLE  NOT DETECTABLE  121 UΔ pH/hour  192 GABRIELA AMANDA  NOT DETECTABLE  NOT DETECTABLE  NOT DETECTABLE  131 UΔ pH/hour  194 FREDY ARBEY HUARAQUE  NOT DETECTABLE  116 UΔ pH/hour  198 MARIA MERCEDES GARCIA  NOT DETECTABLE  NOT DETECTABLE  NOT DETECTABLE  NOT DETECTABLE  105 UΔ pH/hour  199 JEISON ADRIAN QUETA  NOT DETECTABLE  NOT DETECTABLE  NOT DETECTABLE  NOT DETECTABLE  102 UΔ pH/hour  201 DAVID EMILIANO QUETA  NOT DETECTABLE  NOT DETECTABLE  NOT DETECTABLE  115 UΔ pH/hour  202 LISETH JIMENA QUETA  NOT DETECTABLE  NOT DETECTABLE  NOT DETECTABLE  115 UΔ pH/hour  203 DERLY VANESA QUETA  NOT DETECTABLE  NOT DETECTABLE  123 UΔ pH/hour  204 LESLI NAIBET MONDES GREFA  NOT DETECTABLE  NOT DETECTABLE  123 UΔ pH/hour  205 ANDI VANIT MONTES GREFA  NOT DETECTABLE  NOT DETECTABLE  118 UΔ pH/hour  206 JUANA CAMILA GREFA  NOT DETECTABLE  NOT DETECTABLE  NOT DETECTABLE  118 UΔ pH/hour  207 OLGA PATRICIA GREFA  NOT DETECTABLE  NOT DETECTABLE  NOT DETECTABLE  110 UΔ pH/hour  208 VERONICA ANDREA ALVARADO  NOT DETECTABLE  NOT DETECTABLE  NOT DETECTABLE  NOT DETECTABLE  NO DETECTABLE  NO SAMPLE  209 YESICA ANDREA ALVARADO  NOT DETECTABLE  NOT DETECTABLE  NOT DETECTABLE  NO SAMPLE  210 ELISEO QUETA QUINTERO  NOT DETECTABLE  NOT DETECTABLE  NOT DETECTABLE  NO DETECTABLE  NO SAMPLE  211 ALCIDES ARCADIO QUETA  NOT DETECTABLE  NOT DETECTABLE  NOT DETECTABLE  NO DETECTABLE  NO SAMPLE  211 ALCIDES ARCADIO QUETA  NOT DETECTABLE  NOT DETECTABLE  NO DETECTABLE  NO DETECTABLE  NO SAMPLE  211 ALCIDES ARCADIO QUETA  NOT DETECTABLE  NOT DETECTABLE  NO DETECTABLE  NO DETECTABLE  NO DETECTABLE  NO DETECTABLE  NO SAMPLE  210 ELISEO QUETA QUINTERO  NOT DETECTABLE  NOT DETECTABLE  NO DETECTABLE  NO DETECTABLE  NO DETECTABLE  NO DETECTABLE  NO SAMPLE  211					
192 GABRIELA AMANDA  NOT DETECTABLE  NOT DETECTABLE  194 FREDY ARBEY HUARAQUE  NOT DETECTABLE					
194   FREDY ARBEY HUARAQUE   NOT DETECTABLE   125 UΔ pH/hour   195   AGUSTIN RAMOS   NOT DETECTABLE   NOT DETECTABLE   NO SAMPLE   196   CRISTOBAL GREFA   NOT DETECTABLE   NOT DETECTABLE   NO SAMPLE   197   MACARIA QUETA   NOT DETECTABLE   NOT DETECTABLE   116 UΔ pH/hour   198   MARIA MERCEDES GARCIA   NOT DETECTABLE   NOT DETECTABLE   116 UΔ pH/hour   199   JEISON ADRIAN QUETA   NOT DETECTABLE   NOT DETECTABLE   142 UΔ pH/hour   200   DAVID EMILIANO QUETA   NOT DETECTABLE   NOT DETECTABLE   102 UΔ pH/hour   201   YOSI NATALY QUETA   AND DETECTABLE   NOT DETECTABLE   115 UΔ pH/hour   202   LISETH JIMENA QUETA   NOT DETECTABLE   NOT DETECTABLE   115 UΔ pH/hour   203   DERLY VANESA QUETA   NOT DETECTABLE   NOT DETECTABLE   123 UΔ pH/hour   204   LESLI NAIBET MONES GREFA   NOT DETECTABLE   NOT DETECTABLE   123 UΔ pH/hour   205   ANDI VANIT MONTES GREFA   NOT DETECTABLE   NOT DETECTABLE   118 UΔ pH/hour   206   JUANA CAMILA GREFA   NOT DETECTABLE   NOT DETECTABLE   119 UΔ pH/hour   207   OLGA PATRICIA GREFA   NOT DETECTABLE   NOT DETECTABLE   101 UΔ pH/hour   207   OLGA PATRICIA GREFA   NOT DETECTABLE   NOT DETECTABLE   NOT SAMPLE   208   VERONICA ANDREA ALVARADO   NOT DETECTABLE   NOT DETECTABLE   NO SAMPLE   209   YESICA ANDREA QUETA   NOT DETECTABLE   NOT DETECTABLE   NO SAMPLE   209   YESICA ANDREA QUETA   NOT DETECTABLE   NOT DETECTABLE   NO SAMPLE   210   ELISEO QUETA   NOT DETECTABLE   NOT DETECTABLE   NO SAMPLE   211   ALCIDES ARCADIO QUETA   NOT DETECTABLE   NOT DETECTABLE   NO SAMPLE   212   LUIS CADENA   NOT DETECTABLE   NOT DETECTABLE   140 UΔ pH/hour   211   ALCIDES ARCADIO QUETA   NOT DETECTABLE   NOT DETECTABLE   NO SAMPLE   212   LUIS CADENA   NOT DETECTABLE   NOT DETECTABLE   NO SAMPLE   215   JOSE EDIER LOPEZ   NOT DETECTABLE   NOT DETECTABLE   NO SAMPLE   216   JASMINE ANDRIANA TAPIA   NOT DETECTABLE   NOT DETECTABLE   NO SAMPLE   216   JASMINE ANDRIANA TAPIA   NOT DETECTABLE   NOT DETECTABLE   NO SAMPLE   216   JASMINE ANDRIANA TAPIA   NOT DETECTABLE   NOT DETECTABLE   120 UΔ pH/hour   219					
195					125 UA pH/hour
196   CRISTOBAL GREFA   NOT DETECTABLE   NOT DETECTABLE   10					NO SAMPLE
197   MACARIA QUETA					NO SAMPLE
198 MARIA MERCEDES GARCIA 199 JEISON ADRIAN QUETA 199 JEISON ADRIAN QUETA 190 DAVID EMILIANO QUETA 190 NOT DETECTABLE 142 UΔ pH/hour 201 DAVID EMILIANO QUETA 190 DAVID EMILIANO QUETA 191 NOT DETECTABLE 192 UΔ pH/hour 201 YOSI NATALY QUETA GARCIA 192 NOT DETECTABLE 203 NOT DETECTABLE 204 LISETH JIMENA QUETA 205 LISETH JIMENA QUETA 206 NOT DETECTABLE 207 NOT DETECTABLE 208 LESLI NAIBET MONES GREFA 209 ADDI VANIT MONTES GREFA 200 LISETH JIMENA QUETA 200 LISETH JIMENA QUETA 201 NOT DETECTABLE 202 LISETH JIMENA QUETA 203 DERLY VANESA QUETA 204 LESLI NAIBET MONES GREFA 205 ANDI VANIT MONTES GREFA 206 NOT DETECTABLE 207 NOT DETECTABLE 208 NOT DETECTABLE 209 VERONICA ANDREA ALVARADO 200 NOT DETECTABLE 200 NOT DETECTABLE 201 NOT DETECTABLE 202 NOT DETECTABLE 203 VERONICA ANDREA ALVARADO 204 NOT DETECTABLE 205 NOT DETECTABLE 206 NOT DETECTABLE 207 NOT DETECTABLE 208 VERONICA ANDREA ALVARADO 209 YESICA ANDREA QUETA 200 NOT DETECTABLE 200 NOT DETECTABLE 201 ELISEO QUETA QUINTERO 202 NOT DETECTABLE 203 NOT DETECTABLE 204 NOT DETECTABLE 205 NOT DETECTABLE 206 NOT DETECTABLE 207 DETECTABLE 208 VERONICA SANDREA GUETA 209 NOT DETECTABLE 210 LIUS CADENA 211 ALCIDES ARCADIO QUETA 212 NOT DETECTABLE 213 LO PH/hour 214 LORENZA IRGORRI FIGUEROA 215 NOT DETECTABLE 216 NOT DETECTABLE 217 NOT DETECTABLE 218 NOT DETECTABLE 219 NO SAMPLE 210 SESENIA ALEXANDRA FIGUEROA 210 NOT DETECTABLE 211 NOT DETECTABLE 212 NO SAMPLE 213 JOSE EDIER LOPEZ 214 NOT DETECTABLE 215 NOT DETECTABLE 216 NOS AMPLE 217 MARIA CRISTINA CHAVEZ 218 WILLIAM PORTILLO 219 NOT DETECTABLE 210 NOT DETECTABLE 211 NOT DETECTABLE 212 NO PH/hour 213 PH/hour 214 LORENZA IRGORRI FIGUEROA 215 NOT DETECTABLE 216 NOT DETECTABLE 217 NOT DETECTABLE 218 VILLIAM PORTILLO 219 NOT DETECTABLE 219 NOT DETECTABLE 220 PH/hour 221 PH/hour 221 CARMEN PIMIENTO 222 NOT DETECTABLE 223 NOT DETECTABLE 224 NOT DETECTABLE 225 NOT DETECTABLE 226 NOT DETECTABLE 227 NOT DETECTABLE 228 NOT DETECTABLE 229 NOT DETECTABLE 220 PH/hour 220 YERNEN PIMIENTO 220 YERNEN PIMIENTO 221 CARRIA PIMICHAO 222 NOT DETE					
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210 ELISEO QUETA QUINTERO  211 ALCIDES ARCADIO QUETA  NOT DETECTABLE  NOT DETECTABLE  NOT DETECTABLE  146 UΔ pH/hour  212 LUIS CADENA  NOT DETECTABLE  NOT DETECTABLE  NOT DETECTABLE  129 UΔ pH/hour  213 GESENIA ALEXANDRA FIGUEROA  NOT DETECTABLE  NOT DETECTABLE  NOT DETECTABLE  116 UΔ pH/hour  214 LORENZA IRGORRI FIGUEROA  NOT DETECTABLE  NOT DETECTABLE  NOT DETECTABLE  NOSAMPLE  215 JOSE EDIER LOPEZ  NOT DETECTABLE  NOT DETECTABLE  NOSAMPLE  216 JASMINE ANDRIANA TAPIA  NOT DETECTABLE  NOT DETECTABLE  123 UΔ pH/hour  217 MARIA CRISTINA CHAVEZ  NOT DETECTABLE  NOT DETECTABLE  NOT DETECTABLE  122 UΔ pH/hour  218 WILLIAM PORTILLO  NOT DETECTABLE  NOT DETECTABLE  NOT DETECTABLE  151 UΔ pH/hour  219 CARMEN PIMIENTO  NOT DETECTABLE  NOT DETECTABLE  NOT DETECTABLE  150 UΔ pH/hour  220 YENNY MUESE  NOT DETECTABLE  NOT DETECTABLE  NOT DETECTABLE  118 UΔ pH/hour  221 FREDY MUESES  NOT DETECTABLE  NOT DETECTABLE  122 UΔ pH/hour  222 LORENA MUESES  NOT DETECTABLE  NOT DETECTABLE  122 UΔ pH/hour  123 UΔ pH/hour  124 UΛ pH/hour  125 DETECTABLE  NOT DETECTABLE  NOT DETECTABLE  NOT DETECTABLE  NOT DETECTABLE  118 UΔ pH/hour  129 UΛ pH/hour  120 UΛ pH/hour  1210 UΛ pH/hour  1221 LORENA MUESES  NOT DETECTABLE  NOT DETECTABLE  NOT DETECTABLE  NOT DETECTABLE  120 UΛ pH/hour  1210 UΛ pH/hour  1221 LORENA MUESES  NOT DETECTABLE  NOT DETECTABLE  NOT DETECTABLE  NOT DETECTABLE  120 UΛ pH/hour  1210 UΛ pH/hour  1221 LORENA MUESES  NOT DETECTABLE  NOT DETECTABLE  NOT DETECTABLE  NOT DETECTABLE  123 UΛ pH/hour					
211 ALCIDES ARCADIO QUETA NOT DETECTABLE NOT DETECTABLE 146 UΔ pH/hour 212 LUIS CADENA NOT DETECTABLE NOT DETECTABLE 129 UΔ pH/hour 213 GESENIA ALEXANDRA FIGUEROA NOT DETECTABLE NOT DETECTABLE 116 UΔ pH/hour 214 LORENZA IRGORRI FIGUEROA NOT DETECTABLE NOT DETECTABLE NO SAMPLE 215 JOSE EDIER LOPEZ NOT DETECTABLE NOT DETECTABLE NO SAMPLE 216 JASMINE ANDRIANA TAPIA NOT DETECTABLE NOT DETECTABLE 123 UΔ pH/hour 217 MARIA CRISTINA CHAVEZ NOT DETECTABLE NOT DETECTABLE 122 UΔ pH/hour 218 WILLIAM PORTILLO NOT DETECTABLE NOT DETECTABLE 151 UΔ pH/hour 219 CARMEN PIMIENTO NOT DETECTABLE NOT DETECTABLE 129 UΔ pH/hour 220 YENNY MUESE NOT DETECTABLE NOT DETECTABLE 150 UΔ pH/hour 221 FREDY MUESES NOT DETECTABLE NOT DETECTABLE 118 UΔ pH/hour 222 LORENA MUESES NOT DETECTABLE NOT DETECTABLE 122 UΔ pH/hour 1220 CECILIA PINCHAO NOT DETECTABLE NOT DETECTABLE 118 UΔ pH/hour 1220 CECILIA PINCHAO					
212 LUIS CADENA  NOT DETECTABLE  NOT DETECTABLE  129 UΔ pH/hour  213 GESENIA ALEXANDRA FIGUEROA  NOT DETECTABLE  NOT DETECTABLE  116 UΔ pH/hour  214 LORENZA IRGORRI FIGUEROA  NOT DETECTABLE  NOT DETECTABLE  NOT DETECTABLE  NO SAMPLE  215 JOSE EDIER LOPEZ  NOT DETECTABLE  NOT DETECTABLE  NOT DETECTABLE  123 UΔ pH/hour  216 JASMINE ANDRIANA TAPIA  NOT DETECTABLE  NOT DETECTABLE  123 UΔ pH/hour  217 MARIA CRISTINA CHAVEZ  NOT DETECTABLE  NOT DETECTABLE  122 UΔ pH/hour  218 WILLIAM PORTILLO  NOT DETECTABLE  NOT DETECTABLE  NOT DETECTABLE  151 UΔ pH/hour  219 CARMEN PIMIENTO  NOT DETECTABLE  NOT DETECTABLE  NOT DETECTABLE  129 UΔ pH/hour  220 YENNY MUESE  NOT DETECTABLE  NOT DETECTABLE  150 UΔ pH/hour  221 FREDY MUESES  NOT DETECTABLE  NOT DETECTABLE  118 UΔ pH/hour  222 LORENA MUESES  NOT DETECTABLE  NOT DETECTABLE  122 UΔ pH/hour  123 UΔ pH/hour  124 DETECTABLE  NOT DETECTABLE  NOT DETECTABLE  125 UΔ pH/hour  126 DETECTABLE  127 UΔ pH/hour  127 DETECTABLE  NOT DETECTABLE  NOT DETECTABLE  NOT DETECTABLE  NOT DETECTABLE  NOT DETECTABLE  128 UΔ pH/hour  129 UΔ pH/hour  120 DETECTABLE  NOT DETECTABLE  NOT DETECTABLE  NOT DETECTABLE  128 UΔ pH/hour  129 UΔ pH/hour  120 DETECTABLE  NOT DETECTABLE  NOT DETECTABLE  NOT DETECTABLE  120 UΔ pH/hour  121 DETECTABLE  NOT DETECTABLE  NOT DETECTABLE  NOT DETECTABLE  NOT DETECTABLE  129 UΔ pH/hour  120 UΔ pH/hour					
213 GESENIA ALEXANDRA FIGUEROA NOT DETECTABLE NOT DETECTABLE 116 UΔ pH/hour 214 LORENZA IRGORRI FIGUEROA NOT DETECTABLE NOT DETECTABLE NO SAMPLE 215 JOSE EDIER LOPEZ NOT DETECTABLE NOT DETECTABLE NO SAMPLE 216 JASMINE ANDRIANA TAPIA NOT DETECTABLE NOT DETECTABLE 123 UΔ pH/hour 217 MARIA CRISTINA CHAVEZ NOT DETECTABLE NOT DETECTABLE 122 UΔ pH/hour 218 WILLIAM PORTILLO NOT DETECTABLE NOT DETECTABLE 151 UΔ pH/hour 219 CARMEN PIMIENTO NOT DETECTABLE NOT DETECTABLE 129 UΔ pH/hour 220 YENNY MUESE NOT DETECTABLE NOT DETECTABLE 150 UΔ pH/hour 221 FREDY MUESES NOT DETECTABLE NOT DETECTABLE 118 UΔ pH/hour 222 LORENA MUESES NOT DETECTABLE NOT DETECTABLE 129 UΔ pH/hour 1223 CECILIA PINCHAO NOT DETECTABLE NOT DETECTABLE 122 UΔ pH/hour 1223 CECILIA PINCHAO					
214 LORENZA IRGORRI FIGUEROA NOT DETECTABLE NOT DETECTABLE NO SÁMPLE 215 JOSE EDIER LOPEZ NOT DETECTABLE NOT DETECTABLE NO SAMPLE 216 JASMINE ANDRIANA TAPIA NOT DETECTABLE NOT DETECTABLE 123 UΔ pH/hour 217 MARIA CRISTINA CHAVEZ NOT DETECTABLE NOT DETECTABLE 122 UΔ pH/hour 218 WILLIAM PORTILLO NOT DETECTABLE NOT DETECTABLE 151 UΔ pH/hour 219 CARMEN PIMIENTO NOT DETECTABLE NOT DETECTABLE 129 UΔ pH/hour 220 YENNY MUESE NOT DETECTABLE NOT DETECTABLE 150 UΔ pH/hour 221 FREDY MUESES NOT DETECTABLE NOT DETECTABLE 118 UΔ pH/hour 222 LORENA MUESES NOT DETECTABLE NOT DETECTABLE 120 UΔ pH/hour 223 CECILIA PINCHAO NOT DETECTABLE NOT DETECTABLE 122 UΔ pH/hour					
215 JOSE EDIER LOPEZ NOT DETECTABLE NOT DETECTABLE 123 UΔ pH/hour 216 JASMINE ANDRIANA TAPIA NOT DETECTABLE NOT DETECTABLE 123 UΔ pH/hour 217 MARIA CRISTINA CHAVEZ NOT DETECTABLE NOT DETECTABLE 122 UΔ pH/hour 218 WILLIAM PORTILLO NOT DETECTABLE NOT DETECTABLE 151 UΔ pH/hour 219 CARMEN PIMIENTO NOT DETECTABLE NOT DETECTABLE 129 UΔ pH/hour 220 YENNY MUESE NOT DETECTABLE NOT DETECTABLE 150 UΔ pH/hour 221 FREDY MUESES NOT DETECTABLE NOT DETECTABLE 118 UΔ pH/hour 222 LORENA MUESES NOT DETECTABLE NOT DETECTABLE 122 UΔ pH/hour 223 CECILIA PINCHAO NOT DETECTABLE NOT DETECTABLE 122 UΔ pH/hour					
216JASMINE ANDRIANA TAPIANOT DETECTABLENOT DETECTABLE123 UΔ pH/hour217MARIA CRISTINA CHAVEZNOT DETECTABLENOT DETECTABLE122 UΔ pH/hour218WILLIAM PORTILLONOT DETECTABLENOT DETECTABLE151 UΔ pH/hour219CARMEN PIMIENTONOT DETECTABLENOT DETECTABLE129 UΔ pH/hour220YENNY MUESENOT DETECTABLENOT DETECTABLE150 UΔ pH/hour221FREDY MUESESNOT DETECTABLENOT DETECTABLE118 UΔ pH/hour222LORENA MUESESNOT DETECTABLENOT DETECTABLE122 UΔ pH/hour223CECILIA PINCHAONOT DETECTABLENOT DETECTABLE123 UΔ pH/hour					
217 MARIA CRISTINA CHAVEZ NOT DETECTABLE NOT DETECTABLE 122 UΔ pH/hour 218 WILLIAM PORTILLO NOT DETECTABLE NOT DETECTABLE 151 UΔ pH/hour 219 CARMEN PIMIENTO NOT DETECTABLE NOT DETECTABLE 129 UΔ pH/hour 220 YENNY MUESE NOT DETECTABLE NOT DETECTABLE 150 UΔ pH/hour 221 FREDY MUESES NOT DETECTABLE NOT DETECTABLE 118 UΔ pH/hour 222 LORENA MUESES NOT DETECTABLE NOT DETECTABLE 122 UΔ pH/hour 223 CECILIA PINCHAO NOT DETECTABLE NOT DETECTABLE 122 UΔ pH/hour					
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221 FREDY MUESES NOT DETECTABLE NOT DETECTABLE 118 UΔ pH/hour 222 LORENA MUESES NOT DETECTABLE NOT DETECTABLE 122 UΔ pH/hour 223 CECILIA PINCHAO NOT DETECTABLE NOT DETECTABLE 123 UΔ pH/hour					
222 LORENA MUESES NOT DETECTABLE NOT DETECTABLE 122 UΔ pH/hour 223 CECILIA PINCHAO NOT DETECTABLE NOT DETECTABLE 123 UΔ pH/hour					
223 CECILIA PINCHAO NOT DETECTABLE NOT DETECTABLE 123 U∆ pH/hour				NOT DETECTABLE	122 U∆ pH/hour
	223	CECILIA PINCHAO	NOT DETECTABLE	NOT DETECTABLE	
	224	JONATHAN TAQUEZ	NOT DETECTABLE	NOT DETECTABLE	NO SAMPLE

CODIGO	NOMBRE	GLYPHOSATE IN	PARAQUAT IN	CHOLINESTERASES
CODIGO		URINE	URINE	IN BLOOD
225	HERNANDO PINCHAO	NOT DETECTABLE	NOT DETECTABLE	110 U∆ pH/hour
226	MARIA VIRGINIA CHAVEZ	NOT DETECTABLE	NOT DETECTABLE	108 U∆ pH/hour
227	ANA YELA	NOT DETECTABLE	NOT DETECTABLE	98 UΔ pH/hour
228	DEISI DIANA VASQUEZ	NOT DETECTABLE	NOT DETECTABLE	100 UΔ pH/hour
229	MARIA EUGENIA PANTOJA	NOT DETECTABLE	NOT DETECTABLE	118 U∆ pH/hour
230 231	CORNELIA ORTEGA JOHANA ELIZABETH LOPEZ	NOT DETECTABLE NOT DETECTABLE	NOT DETECTABLE NOT DETECTABLE	120 U∆ pH/hour
232	MELBA PORTILLA	NOT DETECTABLE	NOT DETECTABLE	125 U∆ pH/hour 109 U∆ pH/hour
235	ALEXIS MALPUD	NOT DETECTABLE	NOT DETECTABLE	120 UΔ pH/hour
236	RUBY MARLEN YELA	NOT DETECTABLE	NOT DETECTABLE	115 UΔ pH/hour
237	CLAUDIA LORENA BERGARA	NOT DETECTABLE	NOT DETECTABLE	130 UΔ pH/hour
238	JESÚS ANIBAL BERGARA	NOT DETECTABLE	NOT DETECTABLE	150 UΔ pH/hour
239	DERCY ANDREA BERGARA	NOT DETECTABLE	NOT DETECTABLE	140 U∆ pH/hour
240	RUBY AIDE BERGARA	NOT DETECTABLE	NOT DETECTABLE	145 U∆ pH/hour
241	CLAUDIA MARCELA CAICEDO	NOT DETECTABLE	NOT DETECTABLE	144 UΔ pH/hour
242	JONATAN JAVIER CAICEDO	NOT DETECTABLE	NOT DETECTABLE	NO SAMPLE
243	ESLENI FERNANDA CAICEDO	NOT DETECTABLE	NOT DETECTABLE	118 U∆ pH/hour
244 245	JENNY IBANEZ AIDA MARIA MUÑOZ	NOT DETECTABLE	NOT DETECTABLE	120 U∆ pH/hour
245	LUZ DARI ARAUJO	NOT DETECTABLE NOT DETECTABLE	NOT DETECTABLE NOT DETECTABLE	NO SAMPLE 110 UΔ pH/hour
247	ANA MARCELA MADROÑERO	NOT DETECTABLE	NOT DETECTABLE	99 UΔ pH/hour
248	KEVIN JULIAN FIGUEROA	NOT DETECTABLE	NOT DETECTABLE	109 UΔ pH/hour
249	NELI ELVIRA GUALMATAN	NOT DETECTABLE	NOT DETECTABLE	NO SAMPLE
250	DIANA ELISABETH TAPIA	NOT DETECTABLE	NOT DETECTABLE	160 U∆ pH/hour
251	JOSE TAPIA	NOT DETECTABLE	NOT DETECTABLE	NO SÁMPLE
252	GRISELDA DELGADO	NOT DETECTABLE	NOT DETECTABLE	144 U∆ pH/hour
253	ESNEIDER PANTOJA	NOT DETECTABLE	NOT DETECTABLE	146 U∆ pH/hour
254	BLANCA NIDIA BASANTE	NOT DETECTABLE	NOT DETECTABLE	95 UΔ pH/hour
255	RENAL ALBEIRO IGUA	NOT DETECTABLE	NOT DETECTABLE	99 U∆ pH/hour
256 257	DAIRA MAFLA YESICA JULIANA MAFLA	NOT DETECTABLE NOT DETECTABLE	NOT DETECTABLE NOT DETECTABLE	NO SAMPLE NO SAMPLE
258	HENRY LOPEZ	NOT DETECTABLE	NOT DETECTABLE	118 UΔ pH/hour
259	ALEXANDRA DIAZ	NOT DETECTABLE	NOT DETECTABLE	NO SAMPLE
260	LISBETH YURANI MORALEZ	NOT DETECTABLE	NOT DETECTABLE	116 UΔ pH/hour
261	NEIDER RAMIRO MONTOYA	NOT DETECTABLE	NOT DETECTABLE	NO SAMPLE
262	YICET GABRIELA MONTOYA	NOT DETECTABLE	NOT DETECTABLE	118 U∆ pH/hour
263	CARMEN NARVÁEZ	NOT DETECTABLE	NOT DETECTABLE	NO SAMPLE
264	ARACELI ZULEMI URRESTI	NOT DETECTABLE	NOT DETECTABLE	111 U∆ pH/hour
264	DIANA YANEILI MORALEZ	NOT DETECTABLE	NOT DETECTABLE	109 UΔ pH/hour
266	AURA MARINA CANTUCAR	NOT DETECTABLE	NOT DETECTABLE	NO SAMPLE
267 268	AURINO URRESTI JUVENCIA IBANEZ	NOT DETECTABLE NOT DETECTABLE	NOT DETECTABLE NOT DETECTABLE	120 U∆ pH/hour NO SAMPLE
269	ESTER BENAVIDES	NOT DETECTABLE	NOT DETECTABLE	108 UΔ pH/hour
270	DAYANA LISETH IBANEZ BENAVIDES	NOT DETECTABLE	NOT DETECTABLE	NO SAMPLE
271	ZOILA PORTILLA	NOT DETECTABLE	NOT DETECTABLE	109 UΔ pH/hour
272	EDISON JESÚS BERGARA	NOT DETECTABLE	NOT DETECTABLE	NO SAMPLE
273	OTILIA GOLLEZ	NOT DETECTABLE	NOT DETECTABLE	110 UΔ pH/hour
274	ROSA ELENA INSUASTI	NOT DETECTABLE	NOT DETECTABLE	155 U∆ pH/hour
275	LUIS EDMUNDO ROSERO	NOT DETECTABLE	NOT DETECTABLE	160 U∆ pH/hour
276	ANA VELLY GUERRERO VELLO	NOT DETECTABLE	NOT DETECTABLE	120 UΔ pH/hour
277	OMAR FERNANDO CORDOBA GUERRERO	NOT DETECTABLE	NOT DETECTABLE	NO SAMPLE
278 279	LIDIA ESPERANZA ESTRADA YOZMAIRA YUZARO ESTRADA	NOT DETECTABLE NOT DETECTABLE	NOT DETECTABLE NOT DETECTABLE	NO SAMPLE NO SAMPLE
280	EDWIN ALBEIRO MONTOYA	NOT DETECTABLE	NOT DETECTABLE	NO SAMPLE NO SAMPLE
281	CLAUDIA LORENA MONTOYA	NOT DETECTABLE	NOT DETECTABLE	NO SAMPLE
282	NANCY ROCIO ORTEGA	NOT DETECTABLE	NOT DETECTABLE	NO SAMPLE
283	DORIS MEJIA	NOT DETECTABLE	NOT DETECTABLE	NO SAMPLE
284	ZANIER ORTEGA	NOT DETECTABLE	NOT DETECTABLE	150 UΔ pH/hour
285	EMILIA SALAS	NOT DETECTABLE	NOT DETECTABLE	160 UΔ pH/hour
286	ROSA LAUDIÑA IBÁÑEZ	NOT DETECTABLE	NOT DETECTABLE	120 UΔ pH/hour
287	JOSE SALAS	NOT DETECTABLE	NOT DETECTABLE	99 UΔ pH/hour
288	NORBERTA PATIÑO	NOT DETECTABLE	NOT DETECTABLE	96 UΔ pH/hour
289	NELSY NAYIBE CAICEDO	NOT DETECTABLE	NOT DETECTABLE	NO SAMPLE
290	MARGARITA DIAZ	NOT DETECTABLE	NOT DETECTABLE	NO SAMPLE
291	JAMES ROBINSON CAICEDO	NOT DETECTABLE	NOT DETECTABLE	100 U∆ pH/hour

CODIGO	NOMBRE	GLYPHOSATE IN URINE	PARAQUAT IN URINE	CHOLINESTERASES IN BLOOD
292	ANGI PAOLA CAICEDO	NOT DETECTABLE	NOT DETECTABLE	NO SAMPLE
293	DANIELA CASANOVA	NOT DETECTABLE	NOT DETECTABLE	110 U∆ pH/hour
294	ANIBAL CASANOVA	NOT DETECTABLE	NOT DETECTABLE	NO SAMPLE
301	IVON YESENIA PENAGOS SALAS	NOT DETECTABLE	NOT DETECTABLE	110 U∆ pH/hour
302	FLORALBA RUEDA	NOT DETECTABLE	NOT DETECTABLE	104 U∆ pH/hour
303	DOLORES BENAVIDEZ	NOT DETECTABLE	NOT DETECTABLE	159 U∆ pH/hour
304	OLGA CHAMORRO	NOT DETECTABLE	NOT DETECTABLE	113 U∆ pH/hour
305	ISABEL DEL SOCORRO LOPEZ	NOT DETECTABLE	NOT DETECTABLE	118 UΔ pH/hour
306	MARIA DEL ROSARIO LOPEZ	NOT DETECTABLE	NOT DETECTABLE	121 U∆ pH/hour
307	LUIS CALISTO PINCHAO ARDILA	NOT DETECTABLE	NOT DETECTABLE	126 U∆ pH/hour
310	DIELA DEL PILAR TAQUEZ	NOT DETECTABLE	NOT DETECTABLE	154 U∆ pH/hour
312	DIANA MARICEL YANDUN	NOT DETECTABLE	NOT DETECTABLE	167 U∆ pH/hour
313	ROBERT ALEJANDRO YANDUN	NOT DETECTABLE	NOT DETECTABLE	136 U∆ pH/hour
314	OMAIRA MORALES	NOT DETECTABLE	NOT DETECTABLE	162 U∆ pH/hour
315	MERCEDES MORALES	NOT DETECTABLE	NOT DETECTABLE	117 U∆ pH/hour
317	YULIET ROSAS	NOT DETECTABLE	NOT DETECTABLE	120 U∆ pH/hour
320	NANCY BURBANO ANAME	NOT DETECTABLE	NOT DETECTABLE	134 U∆ pH/hour
321 322	CARLOS CASANOVA	NOT DETECTABLE	NOT DETECTABLE	130 U∆ pH/hour
322	EIDER MAURICIO PINCHAO WLADIMIR PINCHAO	NOT DETECTABLE NOT DETECTABLE	NOT DETECTABLE NOT DETECTABLE	114 U∆ pH/hour 136 U∆ pH/hour
323	CLODOMIRO PINCHAO	NOT DETECTABLE	NOT DETECTABLE	136 UΔ pH/nour 158 UΔ pH/hour
324	JESÚS ARLANO ROSAS	NOT DETECTABLE	NOT DETECTABLE	110 UΔ pH/hour
328	DERSY YURANI ROSAS	NOT DETECTABLE	NOT DETECTABLE	NO SAMPLE
330	ARLEY ROSAS	NOT DETECTABLE	NOT DETECTABLE	128 U∆ pH/hour
331	CLARA ELENA REINA	NOT DETECTABLE	NOT DETECTABLE	113 UΔ pH/hour
332	ZULY MARYORI LOPEZ	NOT DETECTABLE	NOT DETECTABLE	158 UΔ pH/hour
333	LUIS ANGEL LOPEZ	NOT DETECTABLE	NOT DETECTABLE	116UΔ pH/hour
334	GLORIA CHABUEZA	NOT DETECTABLE	NOT DETECTABLE	128 UΔ pH/hour
336	CONCEPCIÓN VERDUGO	NOT DETECTABLE	NOT DETECTABLE	120 UΔ pH/hour
337	ROBINSON LOPEZ	NOT DETECTABLE	NOT DETECTABLE	161 UΔ pH/hour
338	MARIA WEBLEG CHARAN	NOT DETECTABLE	NOT DETECTABLE	129 UΔ pH/hour
339	WILLIAM ANDRES CUASPA	NOT DETECTABLE	NOT DETECTABLE	135 U∆ pH/hour
340	HECOR LUCIANO CUASPA	NOT DETECTABLE	NOT DETECTABLE	108 UΔ pH/hour
341	LUCIANO CUASPA	NOT DETECTABLE	NOT DETECTABLE	153 U∆ pH/hour
342	CATERINE ESTRADA	NOT DETECTABLE	NOT DETECTABLE	116 UΔ pH/hour
343	NANCY SALAS	NOT DETECTABLE	NOT DETECTABLE	129 U∆ pH/hour
344	YESIKA JIMENA CASMO	NOT DETECTABLE	NOT DETECTABLE	120UΔ pH/hour
345	JAVIER CASMO	NOT DETECTABLE	NOT DETECTABLE	103 U∆ pH/hour
346	JOSE MIGUEL CHARAN	NOT DETECTABLE	NOT DETECTABLE	120 U∆ pH/hour
347	LUIS ANTONIO CHARAN	NOT DETECTABLE	NOT DETECTABLE	NO SAMPLE
348	MARYURIC RAMÍREZ GALLARDO	NOT DETECTABLE	NOT DETECTABLE	110 U∆ pH/hour
349	ROXANA QUIMAYAS	NOT DETECTABLE	NOT DETECTABLE	108 U∆ pH/hour
350	BRISBANI MARTINEZ	NOT DETECTABLE	NOT DETECTABLE	116 UΔ pH/hour
351	ESPERANZA CASANOVA	NOT DETECTABLE	NOT DETECTABLE	NO SAMPLE
352	ZENEILA CASANOVA	NOT DETECTABLE	NOT DETECTABLE	110 UΔ pH/hour
353	ROSA APOLONIA GALARZA	NOT DETECTABLE	NOT DETECTABLE	122 U∆ pH/hour
354	FREDY MARTINEZ	NOT DETECTABLE	NOT DETECTABLE	124 U∆ pH/hour
355	ONESIMO CASANOVA	NOT DETECTABLE	NOT DETECTABLE	NO SAMPLE
356	JOSE CASANOVA	NOT DETECTABLE	NOT DETECTABLE	120 U∆ pH/hour
357	AURA CASANOVA	NOT DETECTABLE	NOT DETECTABLE	NO SAMPLE
358	HILDARDO CASANOVA	NOT DETECTABLE	NOT DETECTABLE	NO SAMPLE
359	WILSON ARGEMIRO BURGOS	NOT DETECTABLE	NOT DETECTABLE	160 U∆ pH/hour
360 361	YENNY YAMILE BURGOS JUANA ESTER PERENGUEZ	NOT DETECTABLE NOT DETECTABLE	NOT DETECTABLE NOT DETECTABLE	NO SAMPLE 120 UΔ pH/hour
362	CARLOS ALBERTO MUESE	NOT DETECTABLE	NOT DETECTABLE	NO SAMPLE
363	PATRICIA URRESTI	NOT DETECTABLE	NOT DETECTABLE	NO SAMPLE
364	DUVER CHAMUESA	NOT DETECTABLE	NOT DETECTABLE	NO SAMPLE
365	LIDIA YANETH GARCIA	NOT DETECTABLE	NOT DETECTABLE	NO SAMPLE
366	LIDIA YANETH GARCIA	NOT DETECTABLE	NOT DETECTABLE	125 UΔ pH/hour
367	SANDRA MILENA CUASPA	NOT DETECTABLE	NOT DETECTABLE	NO SAMPLE
368	LUIS ARLEY CUASPA	NOT DETECTABLE	NOT DETECTABLE	NO SAMPLE
369	YURI MARISELCUASPA	NOT DETECTABLE	NOT DETECTABLE	NO SAMPLE
370	DIANA CAROLINA CUASPA	NOT DETECTABLE	NOT DETECTABLE	NO SAMPLE
371	EDITH NELLY MISMASA	NOT DETECTABLE	NOT DETECTABLE	120 U∆ pH/hour
372	YENIT YAMILE TAQUEZ	NOT DETECTABLE	NOT DETECTABLE	NO SAMPLE
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CODIGO	NOMBRE	GLYPHOSATE IN	PARAQUAT IN	CHOLINESTERASES
		URINE	URINE	IN BLOOD
373	DIANA PAOLA TAQUEZ	NOT DETECTABLE	NOT DETECTABLE	NO SAMPLE
374	SOCORRO MONTENEGRO	NOT DETECTABLE	NOT DETECTABLE	NO SAMPLE
375	MARIA ELENA MISNASA	NOT DETECTABLE	NOT DETECTABLE	NO SAMPLE
376	JONATAN MONTENEGRO	NOT DETECTABLE	NOT DETECTABLE	NO SAMPLE
377	ELISENIA ORINASA	NOT DETECTABLE	NOT DETECTABLE	NO SAMPLE
378	MARIA ELENA CHAPID	NOT DETECTABLE	NOT DETECTABLE	NO SAMPLE
379	JHON FREDY CHAQUESA	NOT DETECTABLE	NOT DETECTABLE	NO SAMPLE
380	JERÓNIMO MESIAS	NOT DETECTABLE	NOT DETECTABLE	NO SAMPLE
381	GLORIA MUESES	NOT DETECTABLE	NOT DETECTABLE	NO SAMPLE
383	MARIA PIEDAD MUESES	NOT DETECTABLE	NOT DETECTABLE	NO SAMPLE
384	CIELO MUESES	NOT DETECTABLE	NOT DETECTABLE	126 U∆ pH/hour
385	FANNY YANIRA PINCHAO	NOT DETECTABLE	NOT DETECTABLE	157 U∆ pH/hour
386	MIRIAN MARLENE PINCHAO	NOT DETECTABLE	NOT DETECTABLE	NO SAMPLE
387	DORIS ARACELI PINCHAO	NOT DETECTABLE	NOT DETECTABLE	NO SAMPLE
388	GLADIS MARLENE CHAGUEZA	NOT DETECTABLE	NOT DETECTABLE	127 UΔ pH/hour
390	AMINTO ARLEY TORGUINO	NOT DETECTABLE	NOT DETECTABLE	127 U∆ pH/hour
391	MARIA GENIT TONGUIÑO	NOT DETECTABLE	NOT DETECTABLE	135 UΔ pH/hour
392	ELMER FERNANDO TONGUIÑO	NOT DETECTABLE	NOT DETECTABLE	115 U∆ pH/hour
393	HENRY DANIEL TONGUIÑO	NOT DETECTABLE	NOT DETECTABLE	156 UΔ pH/hour
394	MAYERLY TORGUINO	NOT DETECTABLE	NOT DETECTABLE	NO SAMPLE
395	LEIDI NATALI CHAVEZ	NOT DETECTABLE	NOT DETECTABLE	NO SAMPLE
396	ANGEL CULDER	NOT DETECTABLE	NOT DETECTABLE	NO SAMPLE
397	LISANDRO CHAPID	NOT DETECTABLE	NOT DETECTABLE	NO SAMPLE
398	ANA RUBI CRUZ MEJIA	NOT DETECTABLE	NOT DETECTABLE	NO SAMPLE
399	TOVIAS BETANCUR	NOT DETECTABLE	NOT DETECTABLE	NO SAMPLE
400	OLIVER ALEXANDER BETANCUR	NOT DETECTABLE	NOT DETECTABLE	NO SAMPLE
401 402	ELKIN EMERSON URRESTI OSWALDO CORDOBA	NOT DETECTABLE NOT DETECTABLE	NOT DETECTABLE NOT DETECTABLE	NO SAMPLE NO SAMPLE
402		NOT DETECTABLE		
403	MARINA ROSERO ANGIE PAOLA CORDOBA	NOT DETECTABLE	NOT DETECTABLE NOT DETECTABLE	NO SAMPLE NO SAMPLE
405	SONIA MUESES	NOT DETECTABLE	NOT DETECTABLE	151 UΔ pH/hour
406	BEYAN KEVIN JURADO	NOT DETECTABLE	NOT DETECTABLE	92 UΔ pH/hour
407	ANGELA GERALDINE JURADO	NOT DETECTABLE	NOT DETECTABLE	103 UΔ pH/hour
408	GLORIA E. CUARA	NOT DETECTABLE	NOT DETECTABLE	160 UΔ pH/hour
409	MARIA CUARA INBACUA	NOT DETECTABLE	NOT DETECTABLE	159 UΔ pH/hour
410	CLAUDIA CRISTINA URRESTI	NOT DETECTABLE	NOT DETECTABLE	138 UΔ pH/hour
411	DELSY ELISABETH JURADO	NOT DETECTABLE	NOT DETECTABLE	NO SAMPLE
412	ELINA AGUIRRE	NOT DETECTABLE	NOT DETECTABLE	103 UΔ pH/hour
413	GLORA DIAZ	NOT DETECTABLE	NOT DETECTABLE	103 UΔ pH/hour
414	LUIS JAIME JURADO	NOT DETECTABLE	NOT DETECTABLE	119 U∆ pH/hour
415	ANDERSON JAVIER JURADO	NOT DETECTABLE	NOT DETECTABLE	NO SAMPLE
416	MARIA ROSAURA RAMÍREZ	NOT DETECTABLE	NOT DETECTABLE	99 UΔ pH/hour
417	MARIA MERCY NARVÁEZ	NOT DETECTABLE	NOT DETECTABLE	156 U∆ pH/hour
418	JENNY EMILSE MUESES	NOT DETECTABLE	NOT DETECTABLE	93 UΔ pH/hour
419	NILSA AMANDA ACOSTA	NOT DETECTABLE	NOT DETECTABLE	143 U∆ pH/hour
421	MARIA DORIS QUIROZ	NOT DETECTABLE	NOT DETECTABLE	145 U∆ pH/hour
426	GLORIA CABRERA	NOT DETECTABLE	NOT DETECTABLE	NO SAMPLE
428	SANDRA TORRES	NOT DETECTABLE	NOT DETECTABLE	120 U∆ pH/hour
442	JENNY VALLEJO	NOT DETECTABLE	NOT DETECTABLE	96 UΔ pH/hour
451	OMAR HERNÁNDEZ	NOT DETECTABLE	NOT DETECTABLE	92 UΔ pH/hour
452	NORA NOGUERA	NOT DETECTABLE	NOT DETECTABLE	NO SAMPLE
480	BLANCA ALBINA SARTA GREJA	NOT DETECTABLE	NOT DETECTABLE	95 U∆ pH/hour
481	SILDA MARIA SARTA GREJA	NOT DETECTABLE	NOT DETECTABLE	116 U∆ pH/hour
482	MARIA HELENA SARTA GREJA	NOT DETECTABLE	NOT DETECTABLE	101 UΔ pH/hour
483	HILMER EDINSON SARTA GREJA	NOT DETECTABLE	NOT DETECTABLE	109 U∆ pH/hour
484	LENY ANGELA SARTA GREJA	NOT DETECTABLE	NOT DETECTABLE	NO SAMPLE
488	MERCEDES GREJA AGUINDE	NOT DETECTABLE	NOT DETECTABLE	NO SAMPLE
489	ALEGRIA AGUINDE ABELLO	NOT DETECTABLE	NOT DETECTABLE	93 U∆ pH/hour